TECHNICAL MANUAL
INDUSTRY

CHROMOS
SVJETLOST®

About us

CHROMOS SVJETLOST is a Croatian paint and varnish manufacturer from Lužani, established in 1920.

Tradition, lasting high quality, and adaptiveness to market demands. These are the words that capture the essence of our company.

We're proud of our tradition which serves as a proof we've delivered and continue to deliver top-quality products throughout the years and the decades, always adapting to market demands, latest trends and technological advancements.

As a result, our presence at demanding European markets is strengthening. In Croatia, many of our products top the best-product lists in their respective categories. That is why we've remained **A SHADE BETTER** for all these years!

CORROSIVENESS OF THE ENVIRONMENT

Corrosion is the erosion of the surface of metal due to the action of substances from the environment. That's how oxides, sulphides, sulphates, carbonates and chlorides are formed. Metals thus returns to the state of natural balance that they had as ores. The process is exothermic (heat is emitted into the environment). The most known form of corrosion is rusting of steel. That is basically the joining of iron and oxygen and the formation of a hydroxide coating. The corrosion process is irreversible.

Studies conducted in the most developed countries of the world on the damage caused by corrosion show that it is one of the biggest destroyers of human property and energy. Corrosion causes enormous direct and indirect damage. We must be aware that we cannot permanently prevent corrosion, but we can slow it down or limit it by using optimal materials for the adequate corrosion protection.

In the selection of different materials for corrosion protection, coatings have proven to be the easiest, simplest and most economical measure to reduce corrosion losses.

When choosing a coating system, it is important to elaborate the conditions in which the construction, building or Installation will be in operation.

To determine the corrosiveness of the environment, the following must be taken into consideration: humidity and temperature (operation temperature and temperature gradients), presence of UV radiation, chemical exposure (for example, exposure to certain chemicals in factories); mechanical impairments (impact, abrasion, etc.).

The decision on the aggressiveness of the corrosive environment will affect: the type of paint used for protection, total thickness of the coating system, necessary preparation of the surface, minimal and maximum inter-coating intervals.

According to the aggressiveness of the environment, the atmospheric conditions are classified into six corrosion classes EN ISO 12944-2:2018.

Classification of corrosive environments according to ISO 9223	
C1	very low
C2	low
C3	medium
C4	high
C5	very high
CX*	extreme

**CX covers different extreme environments, offshore environment according to ISO 12944-9*

Corrosion category	Examples of typical environments	
	Exterior	Interior
C1 very low		Heating of a building with a clean atmosphere, e.g., offices, stores, schools, hotels.
C2 low	Atmospheres with low levels of pollution: mainly rural areas	Unheated buildings with possible condensation, e.g., sports halls, storage rooms
C3 medium	Urban and industrial atmospheres with an average level of sulphur dioxide pollution; coastal areas with a low level of salinity	Production facilities with high level of humidity and a certain degree of pollution, e.g., food factories, laundries, etc.
C4 high	Industrial and coastal areas of medium salinity	Chemical factories, pools, overhaul shipyards.
C5 very high	Industrial areas with high humidity and aggressive atmosphere, and coastal areas of high salinity.	Buildings and surfaces with almost constant condensation and high level of pollution.
CX extreme	Offshore areas of high salinity or industrial areas of extreme humidity and aggressive atmosphere.	Buildings and surfaces with almost constant condensation and aggressive pollution.

Corrosion category	Environment	Examples of environments and constructions
Im1	Fresh water	Installations on rivers, hydroelectric power plants.
Im2	Sea or brackish water	Immersed structures without cathodic protection.
Im3	Soil	Underground tanks, pipelines.
Im4	Sea or brackish water	Immersed structures with cathodic protection.

DURABILITY OF THE COATING SYSTEM

The durability of the coating system is the assumed time that will pass between the first application and first maintenance. EN ISO 12944 provides four time frames that determine durability:

LOW - **L**	≤ 7 years
MEDIUM - **M**	7 to 15 years
HIGH - **H**	15 to 25 years
VERY HIGH - **VH**	More than 25 years

SURFACE PREPARATION

To achieve optimal quality and durability of the protective system, surface preparation is of great importance.

Surface preparation levels according to ISO 8501-1

Standard levels of primary surface preparation using the abrasive cleaning method			
LABEL EN ISO 12944	**CLEANING NAME**	**DESCRIPTION OF THE SURFACE**	**PICTURE**
Sa 3	Cleaning with an abrasive jet until the steel is visually clean	Looking with the naked eye, the surface is free of grease, oil, and dust. Scales, old coatings and other impurities are completely removed. The surface has uniform, metallic appearance.	
Sa 2 ½	Very thorough cleaning with abrasive jet	Looking with the naked eye, the surface is free of grease, oil, and dust. Scales, old coatings and other impurities are completely removed. All possible impurities are visible in the form of barely noticeable stains.	
Sa 2	Thorough cleaning with abrasive jet	Looking with the naked eye, the surface is free of grease and dust. Scales, old coatings and other impurities are completely removed.	
Sa 1	Gentle cleaning with abrasive jet	Looking with the naked eye, the surface is free of grease, oil and dust, and loose scales and old coatings are removed.	

Standard levels of primary surface preparation using the manual cleaning method			
LABEL EN ISO 12944	**CLEANING NAME**	**DESCRIPTION OF THE SURFACE**	**PICTURE**
St 3	Very thorough manual and machine cleaning	Cleaning of the surface is similar to St 2 but more thorough. Metallic glow is already visible on the surface.	
St 2	Thorough manual and machine cleaning	Looking with the naked eye, the surface is free of grease, oil and filth, loose scales, old coatings and other impurities.	

Note:
The level of St 1 surface preparation is not mentioned because it corresponds to surfaces not adequate for painting.

Surface preparation levels after cleaning with water under high pressure according to ISO 8501-4

Description of the surface after cleaning	
Wa 1	**Gentle cleaning with a high-pressure water jet** When inspecting without the use of a magnifying glass, there must be no visible presence of oil, grease, filth, loose scale, rust, coatings and foreign bodies on the surface. Any remaining impurity must be randomly present and adhere firmly to the substrate.
Wa 2	**Thorough cleaning with a high-pressure water jet** When inspecting without the use of a magnifying glass, there must be no visible presence of oil, grease, filth, loose scale, rust, coatings and foreign bodies on the surface. Any remaining impurity must be randomly present and may be in the form of firmly adhering coating, firmly adhering foreign body or stains from previously present rust.
Wa 2 ½	**Very thorough cleaning with a high-pressure water jet** When inspecting without the use of a magnifying glass, there must be no visible presence of oil, grease, filth, old coatings, except in light traces, and foreign bodies on the surface. Areas of grey of brown/black alteration seen on the corroded steel or steel where deep corrosion is present cannot be removed by further cleaning with a water jet.

HIGH-BUILD ALKYD COATINGS

CHROMOS SVJETLOST®

HARDLUX HB metal primer

HARDLUX HB topcoat

HARDLUX HB

metal primer

PRODUCT DESCRIPTION:
HARDLUX HB metal primer is an air drying high-build prime coating based on a urethanized alkyd resin which contains an active anticorrosive pigments.

The coating shows good weather resistant, possibility of application at lower temperatures and thermal stability up to 100 °C.

It can be used in alkyd systems for anti-corrosion protection of different kind of metal constructions.

Physical and chemical properties

ASSORTMENT:
Grey

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 52 +/- 2% (EN ISO 3251)
by weight: 71 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 155 µm)

THEORETICAL SPREADING RATE:
6,5 m²/l with dry film thickness of 80 µm

DENSITY:
1,2 – 1,3 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 2 h / 20 °C (EN ISO 9117-4)
completely dry: 4 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(i), 500g/l; max: 499 g/l (HRN EN ISO 11890-1)

THINNER:
SYNTHETIC thinner

CHROMOS SVJETLOST®

Application characteristics

COATING APPLICATION :
Coating can be applied with airless spray, brush or roller.

Airless spray application requires coating temperature of 15 °C or higher. Pressure at nozzle of 15 MPa, nozzle width of 0,017" to 0,021" (0,43 to 0,53 mm) and spray angle of 30° to 80°, always check to ensure that filters are clean! Airless settings are informative character and they may be adjusted if needed.

Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas.

Interval of dry film thickness may vary depending on field of use which may alter spreading rate, as well as overcoating interval.

After use, close can and thoroughly wash working tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

Substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
5	5	12	32	-
10	4	8	16	-
20	2	4	8	-
30	1	3	4	-

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
In unopened packaging 24 months from the date of production.

HARDLUX HB

topcoat

PRODUCT DESCRIPTION:
HARDLUX HB topcoat is one component high-build topcoat based on urethanized alkyd resin.

HARDLUX HB topcoat has excellent coverage, long-term retention of gloss and colour shade as well as possibility of application at lower temperatures and thermal stability up to 100 °C.

It can be used in alkyd systems for anti-corrosion protection of different kind of metal constructions.

Physical and chemical properties

ASSORTMENT:
Wide range of shades by applying the Top Mix system for tinting CHROMOS-SVJETLOST.

COATING APPEARANCE:
Semi-matte

NON-VOLATILE-MATTER CONTENT:
by volume: 50 ± 2% (EN ISO 3251)
by weight: 64 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 160 µm)

THEORETICAL SPREADING RATE:
6,3 m²/l with dry film thickness of 80 µm

DENSITY:
1,0 – 1,2 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 2 h / 20 °C (EN ISO 9117-4)
completely dry: 4 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(i), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
SYNTHETIC thinner

CHROMOS SVJETLOST®

Application characteristics

COATING APPLICATION :
Coating can be applied with airless spray, brush or roller.

Airless spray application requires coating temperature of 15 °C or higher. Pressure at nozzle of 15 MPa, nozzle width of 0.017" to 0.021" (0.43 to 0.53 mm) and spray angle of 30° to 80°, always check to ensure that filters are clean! Airless settings are informative character and they may be adjusted if needed.

Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas.

Interval of dry film thickness may vary depending on field of use which may alter spreading rate, as well as overcoating interval.

After use, close can and thoroughly wash working tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

Substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
5	3	12	32	-
10	2,5	6	16	-
20	2	4	8	-
30	1,5	3	4	-

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
In unopened packaging 24 months from the date of production.

EPOXY COATINGS

CHROMOS SVJETLOST®

KEMEPOX 1120 primer
KEMEPOX impregnation
KEMEPOX wash primer primer
KEMEPOX cink primer primer
KEMEPOX AK primer
KEMEPOX DS primer
KEMEPOX DS MIOX
KEMEPOX FD primer
KEMEPOX FD MIOX
KEMEPOX G0 primer
KEMEPOX G4 primer
KEMEPOX MASTIC universal coating
KEMEPOX MASTIC MIOX
KEMEPOX MASTIC FD universal coating
KEMEPOX MASTIC FD MIOX
KEMEPOX MASTIC JO universal coating
KEMEPOX topcoat

KEMEPOX 1120

primer

PRODUCT DESCRIPTION:
KEMEPOX 1120 primer coating is two-component thick-layer quick-drying primer based on polyamide-hardening epoxy resin, which contains anti-corrosion pigments. It is resistant to abrasion, water and most organic solvents.

COATING PROPERTIES:
It may be used in epoxy-polyurethane systems for long-term anti-corrosion protection of iron, galvanized and aluminium structures and protection of concrete surfaces.

Physical and chemical properties

ASSORTMENT:
Grey.

COATING APPEARANCE:
Matte.

NON-VOLATILE-MATTER CONTENT:
by volume: 48 +/- 2% (EN ISO 3251)
by weight: 66 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 165 µm)

THEORETICAL SPREADING RATE:
6 m²/l with dry film thickness of 80 µm

DENSITY:
1,4 - 1,5 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 2 h / 20 °C (EN ISO 9117-4)
completely dry: 5 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 450 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4. To ensure optimal protection of galvanized and aluminium surfaces, light sanding and degreasing is recommended. To achieve optimal protection of concrete surfaces is it necessary to clean the surface from dust and weakly bonded particles, and degrease it. The concrete must be at least 4 weeks old, and its humidity must not exceed 5%. It is recommended to apply one layer of Kemepox impregnation before the first protective layer of the coating. NOTE: It is not recommended to use coatings with anti-corrosion pigments on structures that will be immersed during exploitation.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 3 : 1
by weight – base : contact = 5 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 8 h (20 °C)

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.015" to 0.025" (from 0.38 to 0.63 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thicknesses can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. NOTE: Coatings based on epoxy resins are naturally prone to chalking if exposed to weather conditions. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
10	4	12	15	16
20	2	5	8	7
30	1	3	5	4

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX

impregnation

PRODUCT DESCRIPTION:
KEMEPOX impregnation is a two-component thin-layer primer based on polyamide-hardening epoxy resin. It applies easily and is resistant to water and most solvents.

COATING PROPERTIES:
It may be used as impregnation layer for the protection of indoor concrete surface.

Physical and chemical properties

ASSORTMENT:
Colourless.

COATING APPEARANCE:
Matte.

NON-VOLATILE-MATTER CONTENT:
by volume: 11 ± 2% (EN ISO 3251)
by weight: 19 ± 2%

THEORETICAL SPREADING RATE:
10 m^2/l.

DENSITY:
0.9 – 1.0 kg/l (HRN EN ISO 2811-1).

DRYING TIME:
touch dry: 2 h / 20 °C (EN ISO 9117-4)
completely dry: 5 h / 20 °C (EN ISO 9117-4)

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(h), 750 g/l; max. 750 g/l

SUBSTRATE PREPARATION:
To achieve optimal protection of concrete surfaces is it necessary to clean the surface from dust and weakly bonded particles, and degrease it. The concrete must be at least 4 weeks old, and its humidity must not exceed 5%.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 2,4 : 1
by weight – base **:** contact = 2,5 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 4 h (20 °C)

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller.
Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.017" to 0.021" (from 0.43 to 0.53 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. NOTE: Coatings based on epoxy resins are naturally prone to chalking if exposed to weather conditions. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
10	4	12	15	16
20	2	5	8	7
30	1	3	5	4

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX WASH PRIMER

primer

PRODUCT DESCRIPTION:
KEMEPOX Wash Primer is a two-component thin-layer quick-drying primer based on a combination of polyvinyl butyral, phenolic and epoxy resin and phosphoric acid as an activator, which contains anti-corrosion pigments. It is characterized by excellent adhesion on almost all types of metal surfaces and great compatibility with different types of coatings. It may be used in different anti-corrosion systems as an agent for improving adhesion to metal surfaces.

Physical and chemical properties

ASSORTMENT:
Green-yellow.

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 13 ± 2% (EN ISO 3251)
by weight: 25 ± 2%

TYPICAL FILM THICKNESS:
15 µm dry film (wet film thickness 115 µm)

THEORETICAL SPREADING RATE:
8,7 m²/l with dry film thickness of 15 µm

DENSITY:
0,9 – 0,1 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 20 min / 20 °C (EN ISO 9117-4)
completely dry: 6 h / 20 °C
completely hardened: 3 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
B(c), 780 g/l; max: 720 g/l (EN ISO 11890-1)

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4. To ensure optimal protection of galvanized and aluminium surfaces, light sanding and degreasing is recommended. NOTE: It is not recommended to use coatings with anti-corrosion pigments on structures that will be immersed during exploitation.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 3,5 : 1
by weight – base : contact = 4 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application to activate, and then it must be used within the specified working time of the coating.

POT LIFE: 4 h (20 °C)

COATING APPLICATION:
The coating can be applied by airless or air spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.013” to 0.017” (from 0.33 to 0.43 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. NOTE: Coatings based on epoxy resins are naturally prone to chalking if exposed to weather conditions.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
20	0,5	6	3	3

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX AK

primer

PRODUCT DESCRIPTION:
KEMEPOX AK primer coating is two-component thin-layer primer based on polyamide-hardening epoxy resin, which contains anti-corrosion pigments. It is resistant to mechanical impairments and corrosive agents.

COATING PROPERTIES:
It may be used in epoxy-polyurethane systems for long-term anti-corrosion protection of different metal constructions and in the protection of concrete surfaces.

Physical and chemical properties

ASSORTMENT:
Oxide-red, grey.

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 50 ± 2% (EN ISO 3251)
by weight: 70 ± 2%

TYPICAL FILM THICKNESS:
60 µm dry film (wet film thickness 120 µm)

THEORETICAL SPREADING RATE:
8,3 m²/l with dry film thickness of 60 µm

DENSITY:
1,4 - 1,5 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 4 h / 20 °C (EN ISO 9117-4)
completely dry: 8 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4. To ensure optimal protection of galvanized and aluminium surfaces, light sanding and degreasing is recommended. To achieve optimal protection of concrete surfaces is it necessary to clean the surface from dust and weakly bonded particles, and degrease it. The concrete must be at least 4 weeks old, and its humidity must not exceed 5%. It is recommended to apply one layer of Kemepox impregnation before the first protective layer of the coating. NOTE: It is not recommended to use coatings with anti-corrosion pigments on structures that will be immersed during exploitation.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 3,5 : 1
by weight – base : contact = 6 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 4 h (20 °C)

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.017" to 0.023" (from 0.43 to 0.58 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. NOTE: Coatings based on epoxy resins are naturally prone to chalking if exposed to weather conditions. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
10	7	10	8	8
20	4	8	6	7
30	3	6	5	6

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX DS

primer

PRODUCT DESCRIPTION:
KEMEPOX DS is a two-component high build primer based on a polyamide-curing modified epoxy resin, which contains anti-corrosive pigments. It is resistant to mechanical damage, water and most organic solvents.

COATING PROPERTIES:
It can be used in epoxy-polyurethane systems for longlasting corrosion protection of various types of metal constructions as well as concrete substrates.

Physical and chemical properties

ASSORTMENT:
Oxide red, grey.

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 47 ± 2% (EN ISO 3251)
by weight: 66 ± 2%

TYPICAL FILM THICKNESS:
100 µm dry film (wet film thickness 215 µm)

THEORETICAL SPREADING RATE:
5,9 m²/l with dry film thickness of 80 µm

DENSITY:
1,3 - 1,4 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 2 h / 20 °C (EN ISO 9117-4)
completely dry: 5 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 450 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
Steel surfaces: Manual or mechanical sandblasting or shot blasting to St 2 ½ according to the EN ISO 12944-4 standard. Aluminium and galvanized surfaces: Light grinding and degreasing. Concrete: The surface must be free of dust, grease and weakly bound particles. Concrete should be at least 4 weeks old and its maximal substrate moisture content must not exceed 5%. It is recommended to apply 1 coat of Kemepox Impregnating base coat beforehand.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 3,5 : 1
by weight – base : contact = 6 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION:
Coating can be applied with airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C (59 °F) or higher, pressure at nozzle of 15 MPa, nozzle width of 0,017" to 0,021" (0,43 to 0,53 mm) and spray angle of 30° to 80°. Recommended settings can be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on area of use which may alter spreading rate, drying and curing time as well as overcoating interval. NOTE: Epoxy coatings tend to chalk when exposed to UV and atmospheric conditions. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
10	4	12	15	16
20	2	5	8	7
30	1	3	5	4

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX DS MIOX

intermediate coating

PRODUCT DESCRIPTION:
KEMEPOX DS MIOX is a two-component thick-layer intermediate coating based on polyamide-hardening epoxy resin, which contains the special iron pigment MIOX. It is resistant to mechanical impairments, water and most solvents

COATING PROPERTIES:
It may be used in epoxy-polyurethane systems for long-term anti-corrosion protection of different metal constructions and in the protection of concrete surfaces.

Physical and chemical properties

ASSORTMENT:
Anthracite.

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 55 ± 2% (EN ISO 3251)
by weight: 70 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 145 µm)

THEORETICAL SPREADING RATE:
6,9 m²/l with dry film thickness of 80 µm

DENSITY:
1,3 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 2 h / 20 °C (EN ISO 9117-4)
completely dry: 5 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
The surface of the previously applied basecoat or intermediate coat must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 4 : 1
by weight – base : contact = 6 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 4 h (20 °C)

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller.
Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.017" to 0.023" (from 0.43 to 0.58 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. NOTE: Coatings based on epoxy resins are naturally prone to chalking if exposed to weather conditions. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
10	4	6	7	-
20	2	3	4	-
30	1	2	3	-

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX FD

primer

PRODUCT DESCRIPTION:
KEMEPOX FD is two-component thick-layer quick-drying primer based on polyamide-hardening epoxy resin, which contains anti-corrosion pigments. It can be applied at lower temperatures and is resistant to mechanical impairments, water, corrosive agents and most solvents.

COATING PROPERTIES:
It may be used in epoxy-polyurethane systems for long-term anti-corrosion protection of different metal constructions and in the protection of concrete surfaces.

Physical and chemical properties

ASSORTMENT:
Oxide-red, grey (consult the manufacturer for other shades).

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 48 ± 2% (EN ISO 3251)
by weight: 68 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 165 µm)

THEORETICAL SPREADING RATE:
6 m²/l with dry film thickness of 80 µm

DENSITY:
1.3 – 1.5 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 1 h / 20 °C (EN ISO 9117-4)
completely dry: 1,5 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4. To ensure optimal protection of galvanized and aluminium surfaces, light sanding and degreasing is recommended. To achieve optimal protection of concrete surfaces is it necessary to clean the surface from dust and weakly bonded particles, and degrease it. The concrete must be at least 4 weeks old, and its humidity must not exceed 5%. It is recommended to apply one layer of Kemepox impregnation before the first protective layer of the coating. NOTE: It is not recommended to use coatings with anti-corrosion pigments on structures that will be immersed during exploitation.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 7 : 1
by weight – base : contact = 10 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.017" to 0.023" (from 0.43 to 0.58 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. NOTE: Coatings based on epoxy resins are naturally prone to chalking if exposed to weather conditions. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. -10 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
-10	24	36	36	-*
0	10	14	14	-*
10	3	6	6	-*
20	1	1,5	1,5	-*
30	0,5	1	0,5	-*

**The maximum overcoating interval is unlimited when the surface before application shows no signs of chalking or any other contamination. Otherwise it is necessary to clean the surface in order to enable suitable adhesion of subsequent coat.*

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX FD MIOX

primer

PRODUCT DESCRIPTION:
KEMEPOX FD MIOX is two-component thick-layer quick-drying primer based on polyamide-hardening epoxy resin, which contains anti-corrosion pigments and special iron pigment MIOX. It can be applied at lower temperatures and is resistant to mechanical impairments, water, corrosive agents and most solvents.

COATING PROPERTIES:
It may be used in epoxy-polyurethane systems for long-term anti-corrosion protection of different metal constructions and in the protection of concrete surfaces.

Physical and chemical properties

ASSORTMENT:
Oxide-red, grey (consult the manufacturer for other shades).

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 48 ± 2% (EN ISO 3251)
by weight: 68 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 167 µm)

THEORETICAL SPREADING RATE:
6 m²/l with dry film thickness of 80 µm

DENSITY:
1,5 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 1 h / 20 °C (EN ISO 9117-4)
completely dry: 1,5 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4. To ensure optimal protection of galvanized and aluminium surfaces, light sanding and degreasing is recommended. To achieve optimal protection of concrete surfaces is it necessary to clean the surface from dust and weakly bonded particles, and degrease it. The concrete must be at least 4 weeks old, and its humidity must not exceed 5%. It is recommended to apply one layer of Kemepox impregnation before the first protective layer of the coating. NOTE: It is not recommended to use coatings with anti-corrosion pigments on structures that will be immersed during exploitation.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 7 : 1
by weight – base : contact = 11 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.017" to 0.023" (from 0.43 to 0.58 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. NOTE: Coatings based on epoxy resins are naturally prone to chalking if exposed to weather conditions. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. -10 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
-10	24	36	36	-*
0	10	14	14	-*
10	3	6	6	-*
20	1	1,5	1,5	-*
30	0,5	1	0,5	-*

**The maximum overcoating interval is unlimited when the surface before application shows no signs of chalking or any other contamination. Otherwise it is necessary to clean the surface in order to enable suitable adhesion of subsequent coat.*

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX G0

primer

PRODUCT DESCRIPTION:
KEMEPOX G0 is a two-component high-build primer coat based on a polyamide curing modified epoxy resin with high solids content and anticorrosive pigments. It can be applied at lower temperatures and is resistant to mechanical damages, water and lots of solvents.

COATING PROPERTIES:
It can be used in epoxy-polyurethane systems for longlasting corossion protection of various types of metal constructions as well as concrete substrates.

Physical and chemical properties

ASSORTMENT:
Oxide-red, grey (consult the manufacturer for other shades).

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 51 ± 2% (EN ISO 3251)
by weight: 66 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 160 µm)

THEORETICAL SPREADING RATE:
6,4 m²/l with dry film thickness of 80 µm

DENSITY:
1,2 - 1,4 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 1 h / 20 °C (EN ISO 9117-4)
completely dry: 3 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 450 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
Steel surfaces: Manual or mechanical sandblasting or shot blasting to St 2 ½ according to the EN ISO 12944-4 standard. Aluminium and galvanized surfaces: Light grinding and degreasing. Concrete: The surface must be free of dust, grease and weakly bound particles. Concrete should be at least 4 weeks old and its maximal substrate moisture content must not exceed 5%. It is recommended to apply 1 coat of Kemepox Impregnating base coat beforehand. NOTE: At the constructions that will be immersed during exploitation is not recommended to use coatings with anti-corrosion pigments.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
HARDENER KEMEPOX G0
by weight: A : B = 4 : 1
by volume: A : B = 3 : 1

HARDENER KEMEPOX G0 Winter Grade
by weight: A : B = 8.4 : 1
by volume: A : B = 6 : 1

The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 4 h (20 °C)

COATING APPLICATION:
Coating can be applied with airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C or higher. Pressure at nozzle of 15 MPa, nozzle width of 0.017" to 0.023" (0.43 to 0.58 mm) and spray angle of 30° to 80° and frequent filter cleaning. Recommended settings may be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on area of use which may alter spreading rate, drying and curing time as well as overcoating interval. NOTE: Epoxy coatings tend to chalk when exposed to UV and atmospheric conditions. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. 0 °C (-10 °C with Hardener KEMEPOX G0 Winter Grade)
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
0	3	18	18	-*
10	2	10	10	-*
20	1	4	4	-*
30	0,5	2	2	-*

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
-10	24	36	36	-**
0	3	8	5	-**
10	2	6	3	-**
20	1	3	1,5	-**
30	0,5	1	0,5	-**

**The maximum overcoating interval is unlimited when the surface before application shows no signs of chalking or any other contamination. Otherwise it is necessary to clean the surface in order to enable suitable adhesion of subsequent coat.*
*** Usage of KEMEPOX HB primer G0 "winter grade" CONTACT component enables application at temperatures below 0 °C.*

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX G4

primer

PRODUCT DESCRIPTION:
KEMEPOX G4 is a two-pack high-build quick-drying primer based on poliamine-curing epoxy resin containing anticorrosive pigments. It can be applied at lower temperatures and is resistant to abrasion, water and various solvents.

COATING PROPERTIES:
It can be used in epoxy-polyurethane systems for long-lasting corossion protection of various types of metal constructions as well as concrete substrates.

Physical and chemical properties

ASSORTMENT:
Oxide-red, grey (consult the manufacturer for other shades).

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 53 ± 2% (EN ISO 3251)
by weight: 71 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 150 µm)

THEORETICAL SPREADING RATE:
6,6 m²/l with dry film thickness of 80 µm

DENSITY:
1,4-1,5 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 1 h / 20 °C (EN ISO 9117-4)
completely dry: 3 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 400 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner.

SUBSTRATE PREPARATION:
Steel surfaces: Manual or mechanical sandblasting or shot blasting to Sa 2½ according to the EN ISO 12944-4 standard. Aluminium and galvanized surfaces: Light grinding and degreasing. Concrete surfaces: The surface must be free of dust, grease and weakly bound particles. Concrete should be at least 4 weeks old and its maximal substrate moisture content must not exceed 5%. It is recommended to apply one coat of Kemepox Impregnating base coat beforehand.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 6,2 : 1
by weight – base : contact = 9 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION:
Coating can be applied with airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C (59 °F) or higher, pressure at nozzle of 15 MPa, nozzle width of 0,017" to 0,023" (0,43 to 0,58 mm) and spray angle of 30° to 80°. Recommended settings can be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on area of use which may alter spreading rate, drying and curing time as well as overcoating interval. Remark: Epoxy coatings tend to chalk when exposed to direct sunlight and atmospheric conditions. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. -10 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
-10	24	36	36	-*
0	3	8	5	-*
10	2	6	3	-*
20	1	3	1,5	-*
30	0,5	1	0,5	-*

**The maximum overcoating interval is unlimited when the surface before application shows no signs of chalking or any other contamination. Otherwise it is necessary to clean the surface in order to enable suitable adhesion of subsequent coat.*

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX MASTIC

universal coating

PRODUCT DESCRIPTION:
KEMEPOX Mastic is a two-component, high-build, primer, intermediate and top coat based on polyamide-curing modified epoxy resin, which contains high solid content. It tolerates surface preparation according to the Swedish Standard St2 for manual or machine cleaning (sandblasting or shot blasting according to the EN ISO 12944-4) and adheres well to almost all types of substrates, including previous coated surface. It can also be applied at lower temperatures and is resistant to temperatures up to 150 °C as well as various acids, alkalis and petrol derivatives.

COATING PROPERTIES:
It can be used in epoxy-polyurethane systems for longlasting corossion protection of various types of metal constructions as well as concrete substrates.

Physical and chemical properties

ASSORTMENT:
This product is available in a wide range of shades via Chromos-Svjetlost Top Mix tinting system.

COATING APPEARANCE:
Semi-gloss.

NON-VOLATILE-MATTER CONTENT:
by volume: 83 ± 2% (EN ISO 3251)
by weight: 90 ± 2%

TYPICAL FILM THICKNESS:
150 µm dry film (wet film thickness 180 µm)

THEORETICAL SPREADING RATE:
5,5 m²/l with dry film thickness of 150 µm

DENSITY:
1,4 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 5 h / 20 °C (EN ISO 9117-4)
completely dry: 10 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 250 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
Steel surfaces: Manual or mechanical sandblasting or shot blasting to St 2 ½ according to the EN ISO 12944-4 standard. Aluminium and galvanized surfaces: Light grinding and degreasing Concrete: The surface must be free of dust, grease and weakly bound particles. Concrete should be at least 4 weeks old and its maximal substrate moisture content must not exceed 5%. It is recommended to apply 1 coat of Kemepox Impregnating base coat beforehand. Other primers: Surface of previously applied primer or intermediate coat must be cleaned, decreased

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 6,2 : 1
by weight – base : contact = 8,5 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION:
Coating can be applied with airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C or higher. Pressure at nozzle of 15 MPa, nozzle width of 0.017" to 0.025" (0.43 to 0.63 mm) and spray angle of 30° to 80°. Frequent filter cleaning is necessary. Recommended settings may be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on field of use which may alter spreading rate, drying and curing time as well as overcoating interval. NOTE: Epoxy coatings tend to chalk when exposed to UV and atmospheric conditions. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
10	15	24	24	-*
20	5	10	10	-*
30	3	5	5	-*

**The maximum overcoating interval is unlimited when the surface before application shows no signs of chalking or any other contamination. Otherwise it is necessary to clean the surface in order to enable suitable adhesion of subsequent coat.*

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX MASTIC MIOX

universal coating

PRODUCT DESCRIPTION:
KEMEPOX Mastic Miox is a two-component, high-build, primer and intermediate coat based on polyamide-curing modified epoxy resin, which contains contains special iron pigment MIOX and high solid content. It tolerates surface preparation according to the Swedish Standard St2 for manual or machine cleaning (sandblasting or shot blasting according to the EN ISO 12944-4) and adheres well to almost all types of substrates, including previous coated surface. It can also be applied at lower temperatures and is resistant to temperatures up to 150 °C as well as various acids, alkalis and petrol derivatives.

COATING PROPERTIES:
It can be used in epoxy-polyurethane systems for longlasting corossion protection of various types of metal constructions as well as concrete substrates.

Physical and chemical properties

ASSORTMENT:
This product is available in a wide range of shades via Chromos-Svjetlost Top Mix tinting system.

COATING APPEARANCE:
Semi-gloss.

NON-VOLATILE-MATTER CONTENT:
by volume: 90 ± 2% (EN ISO 3251)
by weight: 95 ± 2%

TYPICAL FILM THICKNESS:
150 µm dry film (wet film thickness 165 µm)

THEORETICAL SPREADING RATE:
6,0 m²/l with dry film thickness of 150 µm

DENSITY:
1,4 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 5 h / 20 °C (EN ISO 9117-4)
completely dry: 10 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 250 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 6,2 : 1
by weight – base : contact = 8,5 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 4 h (20 °C)

COATING APPLICATION:
Coating can be applied with airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C or higher. Pressure at nozzle of 15 MPa, nozzle width of 0.017" to 0.025" (0.43 to 0.63 mm) and spray angle of 30° to 80°. Frequent filter cleaning is necessary. Recommended settings may be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on field of use which may alter spreading rate, drying and curing time as well as overcoating interval. NOTE: Epoxy coatings tend to chalk when exposed to UV and atmospheric conditions. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
10	15	24	24	-*
20	5	10	10	-*
30	3	5	5	-*

**The maximum overcoating interval is unlimited when the surface before application shows no signs of chalking or any other contamination. Otherwise it is necessary to clean the surface in order to enable suitable adhesion of subsequent coat.*

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX MASTIC FD

universal coating

PRODUCT DESCRIPTION:
KEMEPOX Mastic FD is a two-component, high-build, quick-drying primer and intermediate coating based on polyamine-curing modified epoxy resin, with high solid content. It tolerates surface preparation according to the Swedish Standard St2 and manual or machine cleaning (sandblasting or shot blasting according to the EN ISO 12944-4) and adheres well to almost all types of substrates, including already coated surfaces. It can also be applied at lower temperatures and is resistant to temperatures up to 150 °C as well as various acids, alkalis and petrol derivatives.

COATING PROPERTIES:
It may be used in epoxy-polyurethane systems for long-term anti-corrosion protection of different metal constructions and in the protection of concrete surfaces.

Physical and chemical properties

ASSORTMENT:
This product is available in a wide range of shades via Chromos-Svjetlost Top Mix tinting system.

COATING APPEARANCE:
Semi-gloss.

NON-VOLATILE-MATTER CONTENT:
by volume: 76 ± 2% (EN ISO 3251)
by weight: 86 ± 2%

TYPICAL FILM THICKNESS:
200 µm dry film (wet film thickness 265 µm)

THEORETICAL SPREADING RATE:
3,8 m²/l with dry film thickness of 200 µm

DENSITY:
1,4-1,5 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 3 h / 20 °C (EN ISO 9117-4)
completely dry: 4 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 250 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
Steel surfaces: Manual or mechanical sandblasting or shot blasting to Sa 2 ½ according to the EN ISO 12944-4 standard. Aluminium and galvanized surfaces: Light grinding and degreasing. Concrete surfaces: The surface must be free of dust, grease and weakly bound particles. Concrete should be at least 4 weeks old and its maximal substrate moisture content must not exceed 5%. It is recommended to apply 1 coat of Kemepox Impregnating base coat beforehand. Coated surfaces: Surface of previously applied primer or intermediate coat must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 3,4 : 1
by weight – base : contact = 5 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION:
Coating can be applied using airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C (59 °F) or higher, pressure at nozzle of 15 MPa, nozzle width of 0,017" to 0,025" (0,43 to 0,63 mm) and spray angle of 30° to 80°. Frequent filter cleaning is necessary. Recommended settings may be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on area of use which may alter spreading rate, drying and curing time as well as overcoating interval. NOTE: Epoxy coatings tend to chalk when exposed to UV and atmospheric conditions. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. -10 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
-10	50	60	70	-*
0	18	30	35	-*
10	5	8	8	-*
20	3	4	4	-*
30	2	3	3	-*

**The maximum overcoating interval is unlimited when the surface before application shows no signs of chalking or any other contamination. Otherwise it is necessary to clean the surface in order to enable suitable adhesion of subsequent coat.*

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX MASTIC FD MIOX

universal coating

PRODUCT DESCRIPTION:
KEMEPOX Mastic FD MIOX is a two-component thick-layer quick-drying primer and intermediate coating based on polyamide-curing modified epoxy resin, which contains the special iron pigment MIOX and a high proportion of dry matter. It is characterized by high tolerance to the quality of surface preparation (up to St2 manual or machine cleaning according to HRN EN ISO 12944-4), great adhesion to almost all types of surfaces, great compatibility with old coated surfaces, the possibility of application at lower temperatures, thermal stability up to 150 °C and great resistance to acids, alkalis and oil derivatives.

COATING PROPERTIES:
It may be used in epoxy-polyurethane systems for long-term anti-corrosion protection of different metal constructions and in the protection of concrete surfaces.

Physical and chemical properties

ASSORTMENT:
This product is available in a wide range of shades via Chromos-Svjetlost Top Mix tinting system.

COATING APPEARANCE:
Semi-gloss.

NON-VOLATILE-MATTER CONTENT:
by volume: 76 ± 2% (EN ISO 3251)
by weight: 86 ± 2%

TYPICAL FILM THICKNESS:
200 µm dry film (wet film thickness 265 µm)

THEORETICAL SPREADING RATE:
3,8 m²/l with dry film thickness of 200 µm

DENSITY:
1,5 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 3 h / 20 °C (EN ISO 9117-4)
completely dry: 4 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 250 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4. To ensure optimal protection of galvanized and aluminium surfaces, light sanding and degreasing is recommended. The surface of the previously applied basecoat or intermediate coat must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 3,4 : 1
by weight – base : contact = 5 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.017" to 0.025" (from 0.43 to 0.63 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. NOTE: Coatings based on epoxy resins are naturally prone to chalking if exposed to sunlight and weather conditions. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. -10 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
-10	50	60	70	-*
0	18	30	35	-*
10	5	8	8	-*
20	3	4	4	-*
30	2	3	3	-*

**The maximum overcoating interval is unlimited when the surface before application shows no signs of chalking or any other contamination. Otherwise it is necessary to clean the surface in order to enable suitable adhesion of subsequent coat.*

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX MASTIC J0

universal coating

PRODUCT DESCRIPTION:
KEMEPOX Mastic FD J0 is a two-component fast-drying, high-build primer and intermediate coating based on a polyamine curing modified epoxy resin with high solids content and micaceous iron oxide (MIOX). It tolerates surface preparation according to the Swedish Standard St2 and manual or machine cleaning (sandblasting or shot blasting according to the EN ISO 12944-4) and adheres well to almost all types of substrates, including previous coated surface. It can also be applied at lower temperatures and is resistant to temperatures up to 150 °C as well as various acids, alkalis and petrol derivatives.

COATING PROPERTIES:
It can be used in epoxy-polyurethane systems for longlasting corossion protection of various types of metal constructions as well as concrete substrates.

Physical and chemical properties

ASSORTMENT:
This product is available in a wide range of shades via Chromos-Svjetlost Top Mix tinting system.

COATING APPEARANCE:
Semi-gloss.

NON-VOLATILE-MATTER CONTENT:
by volume: 76 ± 2% (EN ISO 3251)
by weight: 86 ± 2%

TYPICAL FILM THICKNESS:
200 µm dry film (wet film thickness 265 µm)

THEORETICAL SPREADING RATE:
3,8 m²/l with dry film thickness of 200 µm

DENSITY:
1,5 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 3 h / 20 °C (EN ISO 9117-4)
completely dry: 4 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 250 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
Steel surfaces should be hand or machine abraded to at least St 2 (EN ISO 8501-1) first, then cleaned and dried. Galvanised steel and aluminium surfaces should be slightly abraded, cleaned and dried. Previous coated surfaces should be cleaned and dried.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 3,4 : 1
by weight – base : contact = 5 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION:
The product can be applied by airless spray, brush or roller. Airless spray requires product temperatures of at least 15 °C, nozzle pressure of 15 Mpa, nozzle orifice of 0.017" to 0.025" (0.43 to 0.63 mm), and spray angle of 30° to 80° and frequent filter cleaning. Recommended settings may be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for smaller areas. Dry film thickness may vary depending on the area of use which may alter spreading rate, drying and curing time as well as overcoating interval. NOTE: Epoxy coatings may chalk when exposed to sunlight and weathering. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. -10 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
-10	50	60	70	-*
0	18	30	35	-*
10	5	8	8	-*
20	3	4	4	-*
30	2	3	3	-*

**The maximum overcoating interval is unlimited when the surface before application shows no signs of chalking or any other contamination. Otherwise it is necessary to clean the surface in order to enable suitable adhesion of subsequent coat.*

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

KEMEPOX

topcoat

PRODUCT DESCRIPTION:
KEMEPOX topcoat is a two pack topcoat based on polyamide-curing epoxy resin. It adheres well to most types of substrates, very well coverage and is resistant to various acids, alkalis and petrol derivatives.

COATING PROPERTIES:
It can be used in epoxy systems for corrosion protection of various types of metal constructions as well as concrete substrates.

Physical and chemical properties

ASSORTMENT:
This product is available in a wide range of shades via Chromos-Svjetlost Top Mix tinting system.

COATING APPEARANCE:
Gloss.

NON-VOLATILE-MATTER CONTENT:
by volume: 45 ± 2% (EN ISO 3251)
by weight: 65 ± 2%

TYPICAL FILM THICKNESS:
40 µm dry film (wet film thickness 90 µm)

THEORETICAL SPREADING RATE:
11,3 m²/l with dry film thickness of 40 µm

DENSITY:
1,2 – 1,3 kg/l (EN ISO 2811-1).

DRYING TIME:
touch dry: 5 h / 20 °C (EN ISO 9117-4)
completely dry: 8 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
Surface of previously applied primer or intermediate coat must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – base : contact = 2 : 1
by weight – base : contact = 3 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 4 h (20 °C)

COATING APPLICATION:
The product can be applied with airless spray, brush or roller. Airless spray application requires product temperatures of 15 °C (59 °F) or higher, pressure at nozzle of 15 MPa, nozzle width of 0.015" to 0.021" (0.38 to 0.53 mm) and spray angle of 30° to 80°. Recommended settings can be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for smaller areas. Dry film thickness may vary depending on the area of use which may alter spreading rate, drying and curing time as well as overcoating interval.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry h	dry h	Min.overcoating interval h	Max.overcoating interval days
10	6	10	10	12
20	5	8	8	7
30	4	6	6	3

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
2 years from the stated date of production in unopened packaging

POLYURETHANE COATINGS

CHROMOS SVJETLOST®

KEMOLUX PUR primer
KEMOLUX PUR topcoat
KEMOLUX PUR HB topcoat
KEMOLUX PUR HB topcoat GLOSS
KEMOLUX PUR HB 2in1
KEMOLUX PUR HB H3 topcoat
KEMOLUX PUR HB MIOX topcoat

KEMOLUX PUR

primer

PRODUCT DESCRIPTION:
KEMOLUX PUR primer is a two-component polyurethane primer containing anti-corrosive pigments. It can be used in polyurethane systems for longlasting corossion protection of various types of metal constructions as well as concrete substrates.

COATING PROPERTIES:
It exhibits good flexibility and resistance to scratching, water and various chemicals.

Physical and chemical properties

ASSORTMENT:
Oxide red, grey (other shades may be available on request).

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 50 ± 2% (EN ISO 3251)
by weight: 70 ± 2%

TYPICAL FILM THICKNESS:
50 µm dry film (wet film thickness 100 µm)

THEORETICAL SPREADING RATE:
10 m²/l with dry film thickness of 50 µm

DENSITY:
1,4 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 2 h / 20 °C (EN ISO 9117-4)
completely dry: 6 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMOLUX PUR thinner

SUBSTRATE PREPARATION:
Steel surfaces: Manual or mechanical sandblasting or shot blasting to Sa 2 ½ according to the EN ISO 12944-4 standard.

CHROMOS SVJETLOST®

POLYURETHANE COATINGS

Application characteristics

MIXING RATIO:
by volume: A : B = 5 : 1
by weight: A : B = 6,7 : 1
Each component of the coating is packaged separately. They should be mixed in the prescribed ratio before use. The mixture should be used several minutes after mixing and before the pot life expiration.

POT LIFE: 4 h (20 °C)

COATING APPLICATION :
Coating can be applied with airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C (59 °F) or higher, pressure at nozzle of 15 MPa, nozzle width of 0,017" to 0,021" (0,43 to 0,53 mm) and spray angle of 30° to 80°. Recommended settings can be adjusted if needed.

Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on area of use which may alter spreading rate, drying and curing time as well as overcoating interval. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
10	4	8	8	11
20	2	6	6	7
30	1	5	5	3

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE :
In unopened packaging 24 months from the date of production.

KEMOLUX PUR

topcoat

PRODUCT DESCRIPTION:
KEMOLUX PUR topcoat is a two-component thin-layer topcoat based on polyurethane. It is characterized by excellent mechanical properties, durability of gloss and shade and resistance to water and different chemicals.

COATING PROPERTIES:
It can be used in epoxy-polyurethane systems for long-term corrosion protection of various metal structures.

Physical and chemical properties

ASSORTMENT:
The product is available in a large number of shades by applying the Chromos-Svjetlost Top Mix system for machine tinting.

COATING APPEARANCE:
Gloss

NON-VOLATILE-MATTER CONTENT:
by volume: 46 ± 2% (EN ISO 3251)
by weight: 60 ± 2%

TYPICAL FILM THICKNESS:
40 µm dry film (wet film thickness 85 µm)

THEORETICAL SPREADING RATE:
11,5 m²/l with dry film thickness of 40 µm

DENSITY:
1,0 - 1,2 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 2 h / 20 °C (EN ISO 9117-4)
completely dry: 6 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMOLUX PUR thinner

SUBSTRATE PREPARATION:
The surface of the previously applied basecoat or intermediate coat must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

POLYURETHANE COATINGS

Application characteristics

MIXING RATIO:
by volume: A : B = 4 : 1
by weight: A : B = 5 : 1
Each component of the coating is packaged separately. They should be mixed in the prescribed ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 4 h (20 °C)

COATING APPLICATION :
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.018" to 0.023" (from 0.46 to 0.58 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thicknesses can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. After use, close the packaging well and thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
10	4	8	8	11
20	2	6	6	7
30	1	5	5	3

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE :
In unopened packaging 24 months from the date of production.

KEMOLUX PUR HB

topcoat

PRODUCT DESCRIPTION:
KEMOLUX PUR HB topcoat is a two-component polyurethane high build topcoat based on a polyisocyanate-curing acrylic resin. It has excellent coverage, durability of gloss and shade, can be applied at lower temperatures and is thermally stable up to 120 °C.

COATING PROPERTIES:
It is used as finishing coat in high build epoxy-polyurethane systems of longlasting anticorrosive protection different type of metal constructions.

Physical and chemical properties

ASSORTMENT:
KEMOLUX PUR DS topcoat can be produced in wide range of colour shades made by Top Mix tinting system CHROMOS-SVJETLOST. A combination with the special iron pigment MIOX is also possible if the shade allows it.

COATING APPEARANCE:
Semi-gloss

NON-VOLATILE-MATTER CONTENT:
by volume: 52 ± 2% (EN ISO 3251)
by weight: 69 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 155 µm)

THEORETICAL SPREADING RATE:
6,7 m²/l with dry film thickness of 80 µm

DENSITY:
1,2 - 1,4 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 3 h / 20 °C (EN ISO 9117-4)
completely dry: 10 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMOLUX PUR thinner

SUBSTRATE PREPARATION:
Substrate previous protect with coat of primer or intermediate must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

POLYURETHANE COATINGS

Application characteristics

MIXING RATIO:
by volume: A : B = 5 : 1
by weight: A : B = 4 : 1
Each component of the coating is packaged separately. They should be mixed in the prescribed ratio before use. The mixture should be used several minutes after mixing and before the pot life expiration.

POT LIFE: 4 hours (20 °C)

COATING APPLICATION :
Coating can be applied with airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C (59 °F) or higher, pressure at nozzle of 15 MPa, a nozzle width of 0.017'' to 0.023'' (0.43 – 0.58 mm) and spray angle of 30° to 80°. Recommended settings may be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on area of use which may alter spreading rate, drying and curing time as well as overcoating interval. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
-5	30	72	72	35
0	17	30	30	20
10	5	12	12	11
20	3	10	10	7
30	2	7	8	3

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE :
In unopened packaging 24 months from the date of production.

KEMOLUX PUR HB

topcoat GLOSS

PRODUCT DESCRIPTION:
is a two-component thick-layer topcoat based on polyurethane.

COATING PROPERTIES:
It is characterized by great coverage and durability of gloss and shade. It may be used in epoxy-polyurethane systems of long-term anti-corrosion protection of various metal constructions.

Physical and chemical properties

ASSORTMENT:
KEMOLUX PUR DS topcoat gloss can be produced in wide range of colour shades made by Top Mix tinting system CHROMOS-SVJETLOST. A combination with the special iron pigment MIOX is also possible if the shade allows it.

COATING APPEARANCE:
Gloss

NON-VOLATILE-MATTER CONTENT:
by volume: 47 ± 2% (EN ISO 3251)
by weight: 56 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 170 µm)

THEORETICAL SPREADING RATE:
6,0 m²/l with dry film thickness of 80 µm

DENSITY:
1,0 - 1,1 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 4 h / 20 °C (EN ISO 9117-4)
completely dry: 10 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMOLUX PUR thinner

SUBSTRATE PREPARATION:
The surface of the previously applied basecoat or intermediate coat must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

POLYURETHANE COATINGS

Application characteristics

MIXING RATIO:
by volume: A : B = 3 : 1
by weight: A : B = 3 : 1
Each component of the coating is packaged separately. They should be mixed in the prescribed ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION :
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.018" to 0.023" (from 0.46 to 0.58 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
10	4	8	8	11
20	2	6	6	7
30	1	5	5	3

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE :
In unopened packaging 24 months from the date of production.

KEMOLUX PUR HB 2in1

CHROMOS SVJETLOST®

POLYURETHANE COATINGS

PRODUCT DESCRIPTION:
KEMOLUX PUR DS 2in1 is a two-component thick-layer coating based on polyisocyanate-hardening acrylic resin, which contains anti-corrosion pigments. It is characterized by great coverage, durability of gloss and shade and the possibility of direct application on metal in one layer.

COATING PROPERTIES:
It may be used in epoxy-polyurethane systems of long-term anti-corrosion protection of various metal constructions.

Physical and chemical properties

ASSORTMENT:
KEMOLUX PUR DS topcoat can be produced in wide range of colour shades made by Top Mix tinting system CHROMOS-SVJETLOST. A combination with the special iron pigment MIOX is also possible if the shade allows it.

COATING APPEARANCE:
Semi-gloss

NON-VOLATILE-MATTER CONTENT:
by volume: 52 ± 2% (EN ISO 3251)
by weight: 69 ± 2%

TYPICAL FILM THICKNESS:
120 µm dry film (wet film thickness 230 µm)

THEORETICAL SPREADING RATE:
4,3 m²/l with dry film thickness of 120 µm

DENSITY:
1,2 - 1,35 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 4 h / 20 °C (EN ISO 9117-4)
completely dry: 10 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMOLUX PUR thinner

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to HRN EN ISO 12944-4. To ensure optimal protection of galvanized and aluminium surfaces, light sanding and degreasing is recommended. The surface of the previously applied basecoat or intermediate coat must be cleaned, degreased and dried.

Application characteristics

MIXING RATIO:
by volume: A : B = 5 : 1
by weight: A : B = 4 : 1
Each component of the coating is packaged separately. They should be mixed in the prescribed ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION :
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.018” to 0.023” (from 0.46 to 0.58 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
10	6	12	12	11
20	4	10	10	7
30	3	8	8	3

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE :
In unopened packaging 24 months from the date of production.

KEMOLUX PUR HB H3

topcoat

PRODUCT DESCRIPTION:
KEMOLUX PUR HB H3 topcoat is a two-component high-build polyurethane topcoat. It has excellent coverage and durability of shade and gloss.

COATING PROPERTIES:
It can be used in epoxy-polyurethane systems of long-lasting anticorrosive protection of various types of metal constructions.

Physical and chemical properties

ASSORTMENT:
KEMOLUX PUR DS H3 topcoat can be produced in wide range of colour shades made by Top Mix tinting system CHROMOS-SVJETLOST. A combination with the special iron pigment MIOX is also possible if the shade allows it.

COATING APPEARANCE:
Gloss

NON-VOLATILE-MATTER CONTENT:
by volume: 58 ± 2% (EN ISO 3251)
by weight: 72 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 140 µm)

THEORETICAL SPREADING RATE:
7,2 m²/l with dry film thickness of 80 µm

DENSITY:
1,4 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 3 h / 20 °C (EN ISO 9117-4)
completely dry: 7 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMOLUX PUR thinner

SUBSTRATE PREPARATION:
The surface of the previously applied basecoat or intermediate coat must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

POLYURETHANE COATINGS

Application characteristics

MIXING RATIO:
by volume: A : B = 3 : 1
by weight: A : B = 3 : 1
Each component of the coating is packaged separately. They should be mixed in the prescribed ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 4 hours (20 °C)

COATING APPLICATION :
Coating can be applied with airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C or higher. Pressure at nozzle of 15 MPa, nozzle tip of 0.018" to 0.023" (0.46 to 0.58 mm) and spray angle of 30° to 80°,and frequent filter cleaning. Recommended settings may be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on area of use which may alter spreading rate, drying and curing time as well as overcoating interval. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
10	5	10	10	10
20	3	7	7	7
30	1	6	6	3

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE :
In unopened packaging 24 months from the date of production.

KEMOLUX PUR DS MIOX

topcoat

PRODUCT DESCRIPTION:
KEMOLUX PUR DS MIOX is a two-component polyurethane thick-layer topcoat that shows great durability of gloss and shade. The product maintains thermal stability up to 120 °C.

COATING PROPERTIES:
It can be used in epoxy-polyurethane systems of long-lasting anticorrosive protection of various types of metal constructions.

Physical and chemical properties

ASSORTMENT:
The product is available in a large number of shades by applying the Chromos-Svjetlost Top Mix system for machine tinting.

COATING APPEARANCE:
Semi-gloss

NON-VOLATILE-MATTER CONTENT:
by volume: 52 ± 2% (EN ISO 3251)
by weight: 69 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 155 µm)

THEORETICAL SPREADING RATE:
6,5 m²/l with dry film thickness of 80 µm

DENSITY:
1,2 - 1,35 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 3 h / 20 °C (EN ISO 9117-4)
completely dry: 10 h / 20 °C
completely hardened: 7 days at 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 499 g/l (EN ISO 11890-1)

THINNER:
KEMOLUX PUR thinner

SUBSTRATE PREPARATION:
To ensure optimal protection it is recommended that the surface on which the paint will be applied is clean and dry, and the basecoat is applied and dried according to manufacturer's instructions. Any impurities are removed with degreasing agents, rinsing with fresh water and drying.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume: A : B = 3 : 1
by weight: A : B = 3 : 1
Each component of the coating is packaged separately. They should be mixed in the prescribed ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 4 hours (20 °C)

COATING APPLICATION :
Coating can be applied with airless spray, brush or roller. Airless spray application requires coating temperature of 15 °C or higher. Pressure at nozzle of 15 MPa, nozzle tip of 0.018" to 0.023" (0.46 to 0.58 mm) and spray angle of 30° to 80°,and frequent filter cleaning. Recommended settings may be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on area of use which may alter spreading rate, drying and curing time as well as overcoating interval. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
-5	30	72	72	35
0	17	30	30	20
10	5	12	12	11
20	3	10	10	7
30	2	7	8	3

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE :
In unopened packaging 24 months from the date of production.

VINYL ACRYLIC COATINGS

CHROMOS SVJETLOST®

KEMOKRIL VA primer MIOX

KEMOKRIL VA topcoat

KEMOKRIL VA MIOX

primer

PRODUCT DESCRIPTION:
KEMEPOX VA MIOX primer coating is one-component thick-layer quick-drying primer based on vinyl-acrylic polymers, which contains anti-corrosion pigments and special iron pigment MIOX

COATING PROPERTIES:
It is characterized by great adhesion, even on galvanized surfaces, great compatibility with old coated surfaces and the possibility of application at lower temperatures. It is not resistant to organic solvents and oil derivatives. It may be used in the ant-corrosion system of various iron or galvanized constructions in almost all environments.

Physical and chemical properties

ASSORTMENT:
Oxide-red, grey (consult the manufacturer for other shades).

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 50 +/- 2% (EN ISO 3251)
by weight: 70 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 160 µm)

THEORETICAL SPREADING RATE:
6,3 m²/l with dry film thickness of 80 µm

DENSITY:
1,3 - 1,4 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 15 min / 20 °C (EN ISO 9117-4)
completely dry: 2 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(i), 500 g/l; maks: 499 g/l (EN ISO 11890-1)

THINNER:
KEMOKRIL VA thinner

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4. To ensure optimal protection of galvanized and aluminium surfaces, light sanding and degreasing is recommended. **NOTE**: It is not recommended to use coatings with anti-corrosion pigments on structures that will be immersed during exploitation.

CHROMOS SVJETLOST®

Application characteristics

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.021” to 0.032” (from 0.53 to 0.79 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. After use, close the packaging well and thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry hours	dry hours	Min.overcoating interval hours	Max.overcoating interval days
5	40	4	40	
10	30	3	30	-
20	15	2	25	-
30	10	1,5	15	-

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
In unopened packaging 24 months from the date of production.

KEMOKRIL VA

topcoat

PRODUCT DESCRIPTION:
KEMOKRIL VA topcoat is a one-component thick-layer quick-drying topcoat based on vinyl-acrylic polymers.

COATING PROPERTIES:
It is characterised by great coverage and the possibility of application at lower temperatures. It is not resistant to organic solvents and oil derivatives. It may be used in the ant-corrosion systems of various iron or galvanized constructions in almost all environments.

Physical and chemical properties

ASSORTMENT:
The product is available in a large number of shades by applying the Chromos-Svjetlost Top Mix system for machine tinting. It is possible to combine it with the special iron pigment MIOX if the shade allows it.

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 43 ± 2% (EN ISO 3251)
by weight: 60 ± 2%

TYPICAL FILM THICKNESS:
80 µm dry film (wet film thickness 185 µm)

THEORETICAL SPREADING RATE:
5,4 m²/l with dry film thickness of 80 µm

DENSITY:
1,2 - 1,4 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 30 min / 20 °C (EN ISO 9117-4)
completely dry: 1 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(i), 500 g/l; maks: 499 g/l (EN ISO 11890-1)

THINNER:
KEMOKRIL VA thinner

SUBSTRATE PREPARATION:
The surface of the previously applied basecoat or intermediate coat must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

Application characteristics

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.017” to 0.021” (from 0.43 to 0.53 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thicknesses can change depending on the area of application of the coating, which can lead to deviations from the stated coverage values and the recoat interval. After use, close the packaging well and thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

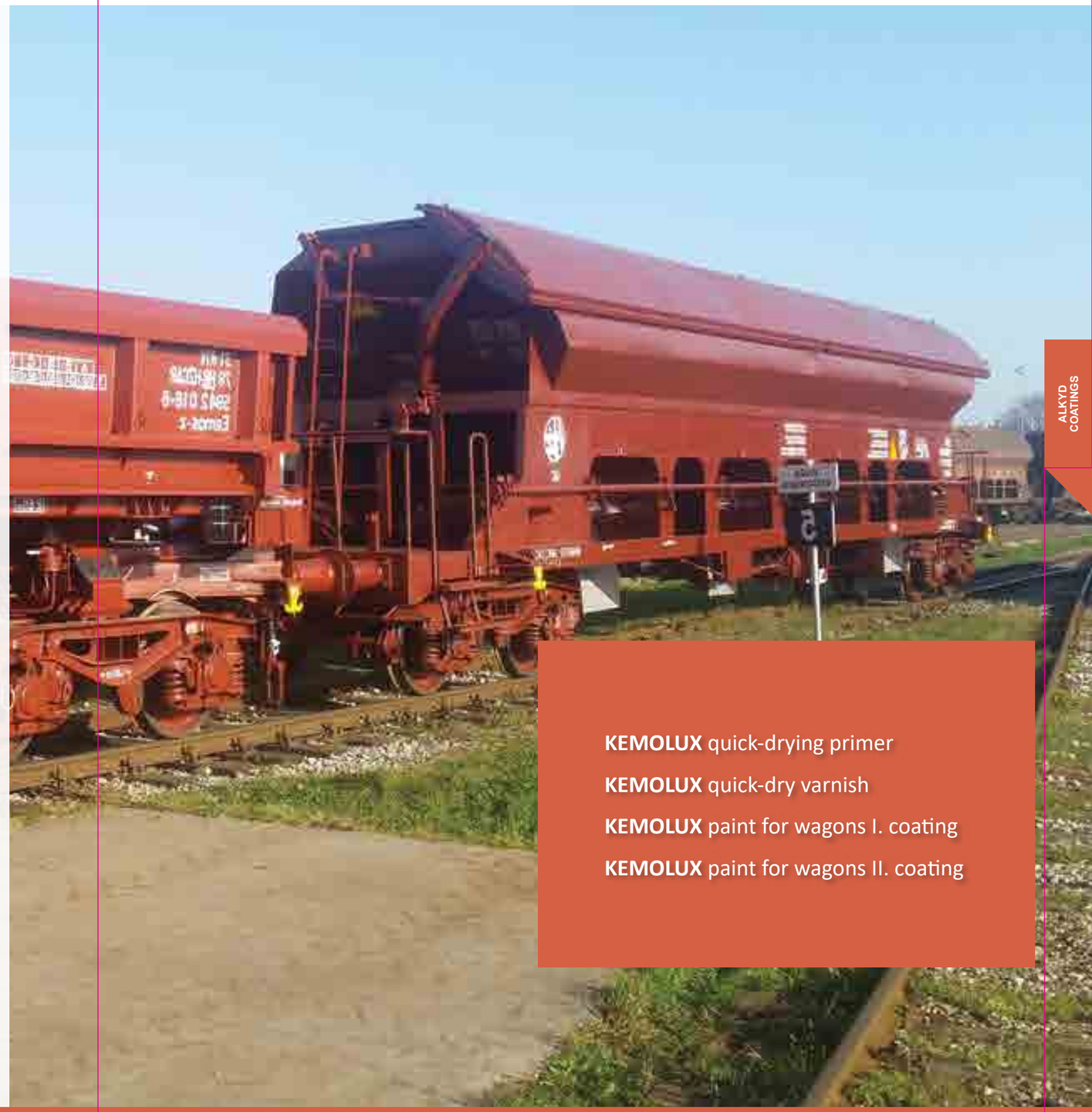
substrate temperature °C	touch dry minute	dry hours	Min.overcoating interval hours	Max.overcoating interval days
5	60	4	4	-
10	45	3	3	-
20	30	1	1	-
30	15	0,5	0,5	-

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
In unopened packaging 24 months from the date of production.

ALKYD COATINGS

CHROMOS SVJETLOST®



KEMOLUX quick-drying primer

KEMOLUX quick-dry varnish

KEMOLUX paint for wagons I. coating

KEMOLUX paint for wagons II. coating

KEMOLUX quick-drying primer

primer

PRODUCT DESCRIPTION:
KEMOLUX quick-drying primer is based on modified alkyd resin that contains anti-corrosion pigments. It dries quickly, has excellent adhesion, and has good anti-corrosive and mechanical properties.

COATING PROPERTIES:
It is applied as anti-corrosive coating for the protection of metal surfaces in the production of railway vehicles, agricultural machinery and tools, and other products of the metalworking industry and mechanical engineering. It is also applied as temporary one-layer primer and topcoat for the transportation of steel construction, boilers, different parts of furnaces, etc.

Physical and chemical properties

ASSORTMENT:
Black RAL 9004

COATING APPEARANCE: Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 48 ± 2% (EN ISO 3251)
by weight: 65 ± 2%

THEORETICAL SPREADING RATE:
10 - 11 m²/l in one layer on a smooth surface, dry film thickness 30 µm.

DENSITY:
1,35 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 20 min / 20 °C (EN ISO 9117-4)
completely dry: 1 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(i), 500 g/l; maks: 450 g/l (EN ISO 11890-1)

THINNER:
Thinner for fast-drying paints, nitro thinner.

CHROMOS SVJETLOST®

Application characteristics

COATING APPLICATION:
Applied on a well prepared metal substrate (rust, greased and humidity removed) by brush or roller (maximum dilution 10% of thinner), or by spraying or immersion (diluted with 15-20% of thinner) in two layers, 20 minutes after applying the first layer at 20°C, up to 8 hours after the previous layer or after 7 days.

WORKING CONDITIONS:
air temperature: min. +10 °C
relative humidity: max. 75%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry minute	dry hours	Min.overcoating interval min	Max.overcoating interval days
10	30	2	20	-
20	20	1	15	-
30	15	0,5	10	-

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
60 months in unopened packaging.

KEMOLUX quick-dry varnish

topcoat

PRODUCT DESCRIPTION:
KEMOLUX quick-dry varnish is a coating based on modified alkyd resin, it dries quickly, is of excellent adhesion and other mechanical properties.

COATING PROPERTIES:
KEMOLUX quick-dry varnish is used as topcoat in the system of protection of metal surfaces. Protection of agricultural machinery, attachments, industrial equipment, means of internal transport and other products of the metalworking and electrical industry.

Physical and chemical properties

ASSORTMENT:
According to KEMOLUX colour chart or by applying the Top Mix system for machine tinting CHROMOS-SVJETLOST, a wide range of shades can be obtained.

COATING APPEARANCE:
Characterized by high gloss or matte appearance, depending on customer request.

NON-VOLATILE-MATTER CONTENT:
by volume: 47 ± 2% (EN ISO 3251)
by weight: 55 ± 2%

TYPICAL FILM THICKNESS:
30 µm dry film (wet film thickness 64 µm)

THEORETICAL SPREADING RATE:
8 – 11 m²/l with dry film thickness of 30 µm

DENSITY:
0,9 - 1,2 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 1 h / 20 °C (EN ISO 9117-4)
completely dry: 2 h / 20 °C

THINNER:
Thinner for fast-drying paints.

SUBSTRATE PREPARATION:
Applied on a clean and dry surface.

CHROMOS SVJETLOST®

Application characteristics

COATING APPLICATION:
On a well-prepared metal substrate, it is recommended to first apply a metal primer, and then spray KEMOLUX quick-drying varnish in the desired shade, in two layers. Kemolux quick-dry varnish for spraying is diluted with thinner for fast-drying paints at 25” according to HRN EN ISO 2431, DIN 4 mm/20 °C.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

OVERCOATING INTERVAL:
KEMOLUX quick-dry varnish may be applied on the primer Kemolux universal quick-dry metal primer after only 1 hour, and the next layer of Kemolux quick-dry varnish may be applied by spraying after 15-20 minutes (wet-on-wet system). Both layers of Kemolux quick-dry varnish must be applied within 8h or the second layer after 7 days.

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
60 months in unopened packaging.

KEMOLUX paint for wagons I. coating

primer

PRODUCT DESCRIPTION:
KEMOLUX paint for wagons I. coating is a one-component primer coating based on alkyd resin that contains anti-corrosion pigments.

COATING PROPERTIES:
It is characterized by excellent mechanical properties, durability of gloss and shade, resistance to various oils and light chemicals and thermal stability up to 120 °C. It can be used in alkyd anti-corrosion protection systems of iron and steel structures.

Physical and chemical properties

ASSORTMENT:
Red (consult the manufacturer for other shades).

NON-VOLATILE-MATTER CONTENT:
by volume: 66 ± 2% (EN ISO 3251)
by weight: 55 ± 2%

TYPICAL FILM THICKNESS:
30 µm dry film (wet film thickness 60 µm)

THEORETICAL SPREADING RATE:
10 m²/l with dry film thickness of 30 µm

DENSITY:
0,9 - 1,2 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 2 - 4 h / 20 °C (EN ISO 9117-4)
completely dry: 8 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(i), 500 g/l; maks: 499 g/l (EN ISO 11890-1)

THINNER:
SYNTHETIC thinner

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4.

CHROMOS SVJETLOST®

Application characteristics

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.013” to 0.017” (from 0.33 to 0.43 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. After use, close the packaging well and thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry minute	dry hours	Min.overcoating interval min	Max.overcoating interval days
20	4	8	16	14

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
5 years from the stated date of production in unopened packaging.

KEMOLUX paint for wagons II. coating

topcoat

PRODUCT DESCRIPTION:
KEMOLUX paint for wagons II. coating is a one-component topcoat based on alkyd resin.

COATING PROPERTIES:
It is characterized by excellent mechanical properties, durability of gloss and shade, resistance to various oils and light chemicals and thermal stability up to 120 °C. It can be used in alkyd anti-corrosion protection systems of iron and steel structures

Physical and chemical properties

ASSORTMENT:
The product is available in a large number of shades by applying the Chromos-Svjetlost Top Mix system for machine tinting.

COATING APPEARANCE:
Gloss

NON-VOLATILE-MATTER CONTENT:
by volume: 65 ± 2% (EN ISO 3251)
by weight: 50 ± 2%

TYPICAL FILM THICKNESS:
30 µm dry film (wet film thickness 60 µm)

THEORETICAL SPREADING RATE:
11 m²/l with dry film thickness of 30 µm

DENSITY:
0,9 - 1,2 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 2 - 6 h / 20 °C (EN ISO 9117-4)
completely dry: 24 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(i), 500 g/l; maks: 499 g/l (EN ISO 11890-1)

THINNER:
SYNTHETIC thinner

SUBSTRATE PREPARATION:
To achieve optimal protection, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4. The surface must be cleaned, degreased and dried.

CHROMOS SVJETLOST®

Application characteristics

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.013” to 0.017” (from 0.33 to 0.43 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. After use, close the packaging well and thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry minute	dry hours	Min.overcoating interval min	Max.overcoating interval days
20	4	8	16	14

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
5 years from the stated date of production in unopened packaging.

HIGH TEMPERATURE-RESISTANT COATINGS

CHROMOS SVJETLOST®

TERMOSTAL 600

TERMOSTAL 600

PRODUCT DESCRIPTION:
TERMOSTAL 600 - PROFI is a modified silicone coating resistant to high temperatures. It is used to protect and decorate objects that are exposed to high temperatures; car mufflers and pipes, various steel structures, pipelines, chimneys, stoves.

COATING PROPERTIES:
If the coating is used as the only protection, it can withstand longer exposures at temperatures up to 600 °C, and 1 to 2 coats are recommended. For a combination of high temperature resistance and corrosion resistance, TERMOSTAL 600 - PROFI is applied over a zinc silicate primer. In this case, the system is resistant to temperatures up to 400 °C. Air-dried coating achieves good mechanical strength. In the phase of the first ignition, the room needs to be well ventilated, because during ignition smoke and unpleasant odours are created.

Physical and chemical properties

ASSORTMENT:
Black and silver.

COATING APPEARANCE: Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 30 ± 2% (EN ISO 3251)
by weight: 44 ± 2%

TYPICAL FILM THICKNESS:
25 µm dry film (wet film thickness 83 µm)

THEORETICAL SPREADING RATE:
13 m²/l with dry film thickness of 25 µm

DENSITY:
0.96 – 1.1 kg/l (EN ISO 2811-1)

DRYING TIME:
touch dry: 15 min / 20 °C (EN ISO 9117-4)

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
B(e), 840 g/l; max: 800 g/l (EN ISO 11890-1)

THINNER:
Thinner for fast-drying paints - max. up to 5 %

SUBSTRATE PREPARATION:
For optimal protection, sandblasting / shot blasting up to Sa 2 ½ or mechanical cleaning up to St 3 according to EN ISO 12944/4 is recommended.

CHROMOS SVJETLOST®

Application characteristics

COATING APPLICATION:
It is applied by airless spraying, brush or roller for smaller areas on surfaces made of iron or cast iron. It can also be applied by spraying with compressed air. Prepare a sufficient amount of product for use to process one surface; keep the rest in a well-sealed original packaging. Immediately after finishing work, wash the tool with quick drying thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

RECOMMENDED PAINT SYSTEM:
Temperature up to 600 °C:
1 or 2 coats of 25 µm TERMOSTAL 600 - PROFI
Temperature up to 400 °C:
1 coat 75 µm SILICOCEME Zn - zinc silicate primer
1 or 2 coats of 25 µm TERMOSTAL 600 - PROFI

It is best to determine the coating system according to the recommendation of the manufacturer’s experts and in accordance with the EN ISO 12944/5 standard.

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
In unopened packaging 18 months from the date of production.

ZINC POWDER-BASED COATINGS

CHROMOS SVJETLOST®

KEMEPOX zink primer

SILIKOKEM Zn

KEMEPOX ZINK PRIMER

CHROMOS SVJETLOST®

PRODUCT DESCRIPTION:
KEMEPOX zinc primer coating is two-component thick-layer quick-drying primer based on polyamide-hardening epoxy resin, which contains high share of zinc dust.

COATING PROPERTIES:
It is highly resistant to corrosion and mechanical impairments. It may be used in epoxy-polyurethane systems of long-term anti-corrosion protection of sandblasted iron constructions.

Physical and chemical properties

ASSORTMENT:
Grey.

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 50 ± 2% (EN ISO 3251)
by weight: 83 ± 2%

TYPICAL FILM THICKNESS:
60 µm dry film (wet film thickness 120 µm)

THEORETICAL SPREADING RATE:
8,3 m²/l with dry film thickness of 60 µm

DENSITY:
2,6 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 15 min / 20 °C (EN ISO 9117-4)
completely dry: 2 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 450 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
To achieve optimal protection of iron surfaces, sandblasting or shot blasting up to Sa 2½ is recommended according to EN ISO 12944-4. **NOTE:** It is not recommended to use coatings with anti-corrosion pigments on structures that will be immersed during exploitation.

Application characteristics

MIXING RATIO:
by volume – base : contact = 6,4 : 1
by weight – base : contact = 19 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 2 h (20 °C)

COATING APPLICATION:
The coating can be applied by airless spraying, brush or roller. Application by airless spraying requires a coating temperature of 15 °C or higher. An output pressure of 15 MPa, a nozzle opening of 0.017" to 0.027" (from 0.43 to 0.69 mm), a jet angle of 30° to 80° and regular checking of the filter cleanliness are recommended. The data for airless spraying is given as a guideline and can be further adjusted if necessary. Brush or roller application requires multiple layers to achieve optimal coating thickness, so it is more suitable for smaller surfaces. The range of dry film thickness can change depending on the area of application of the coating which can lead to deviations from the stated coverage values and the recoat interval. **NOTE:** Coatings based on epoxy resins are naturally prone to chalking if exposed to weather conditions. After use, thoroughly wash the used tools in the specified thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 85%
substrate temperature: min. 3 °C above dew point

DRYING TIME:

substrate temperature °C	touch dry minute	dry hours	Min.overcoating interval hours	Max.overcoating interval days
10	20	3	3	-
20	15	2	2	-
30	10	1,5	1,5	-

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
1 year from the stated date of production in unopened packaging

SILIKOKEM Zn

primer

PRODUCT DESCRIPTION:
SILIKOKEM Zn is a two-component, high-build, fast-drying primer based on on ethyl silicate binder and zinc dust.

COATING PROPERTIES:
It is characterized by outstanding mechanical properties, resistance to organic solvents and resistance to temperatures up to 400°C. It is used as cathodic protection as applied directly on sand or grit blasted steel surface and can be used for the most demanding conditions of exploitation.

Physical and chemical properties

ASSORTMENT:
Grey.

COATING APPEARANCE:
Matte

NON-VOLATILE-MATTER CONTENT:
by volume: 52 ± 2% (EN ISO 3251)
by weight: 80 ± 2%

TYPICAL FILM THICKNESS:
75 µm dry film (wet film thickness 145 µm)

THEORETICAL SPREADING RATE:
6,9 m²/l with dry film thickness of 75 µm

DENSITY:
2,4 kg/l (A+B) (EN ISO 2811-1)

DRYING TIME:
touch dry: 20 min / 20 °C (EN ISO 9117-4)
completely dry: 3 h / 20 °C

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 500 g/l; max: 450 g/l (EN ISO 11890-1)

THINNER:
KEMEPOX thinner

SUBSTRATE PREPARATION:
Steel surfaces: Manual or mechanical sandblasting or shot blasting to St 2 ½ according to the EN ISO 12944-4 standard.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by volume – A : B = 1.4 : 1
by weight – A : B = 5 : 1
The components of the coating are found separately, each in its own packaging. They must always be mixed in the given ratio before use. The coating mixed in this way must rest for a few minutes before application in order to start the hardening reaction, and then it must be used within the specified work time of the coating.

POT LIFE: 10 h (20 °C)

COATING APPLICATION:
Coating can be applied with airless spray, brush or roller.
Airless spray application requires coating temperature of 15 °C or higher. Pressure at nozzle of 15 MPa, nozzle width of 0.018" to 0.023" (0.46 to 0.58 mm) and spray angle of 30° to 80°. Frequent filter cleaning is necessary. Recommended settings may be adjusted if needed. Brush or roller application requires multiple layers to achieve optimal film thickness and is therefore recommended for application on smaller areas. Dry film thickness may vary depending on field of use which may alter spreading rate, drying and curing time as well as overcoating interval. NOTE: Before application of topcoat is recommended to apply a tin layer of diluted primer or topcoat (on completely dry surface) to prevent popping effect. After use thoroughly wash tools with the aforementioned thinner.

WORKING CONDITIONS:
air temperature: min. +5 °C
relative humidity: max. 70 – 80 % (in case of lower humidity, it is necessary to humidify the air!)
substrate temperature: min. 3 °C above dew point

DRYING TIME:

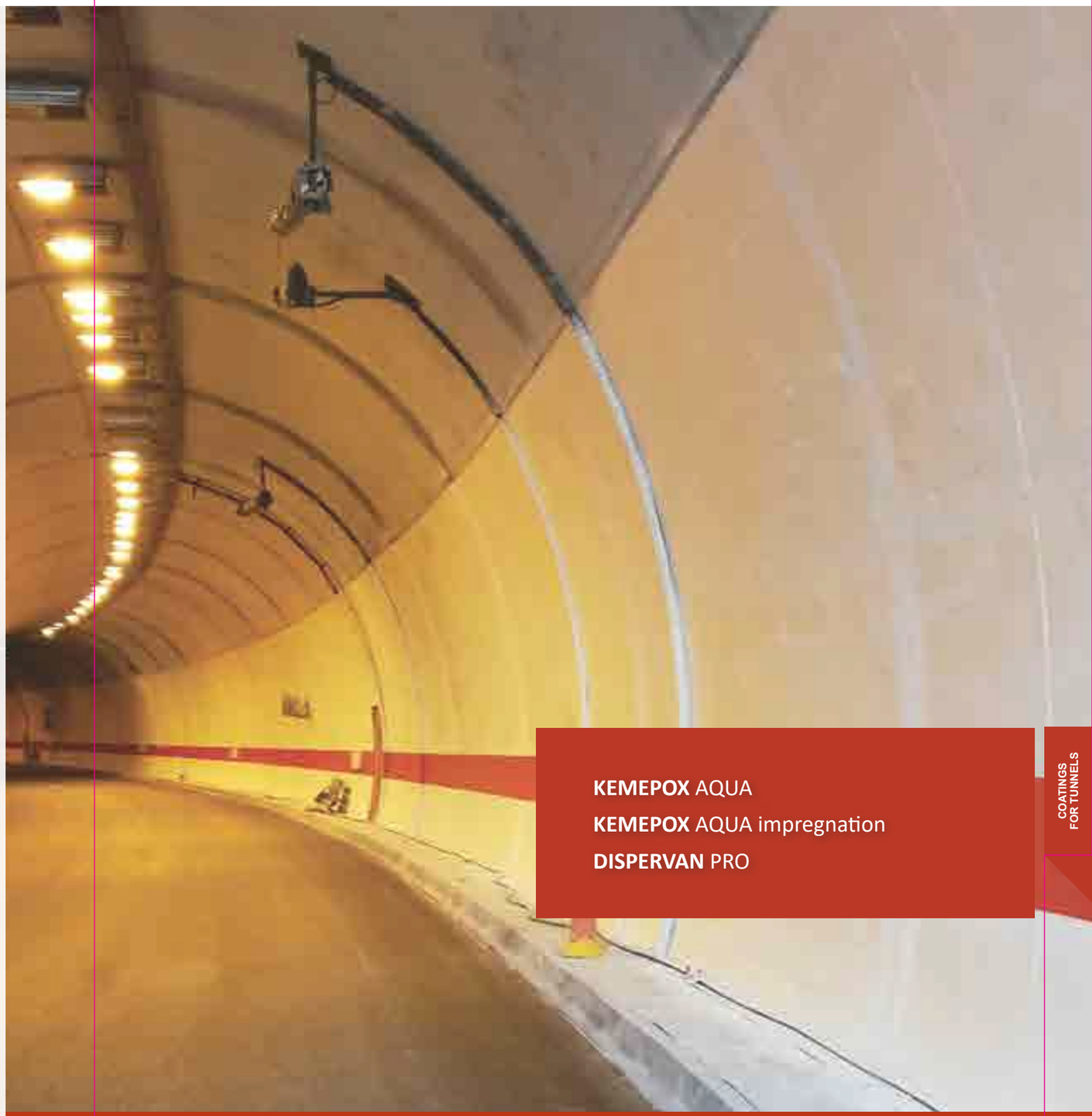
substrate temperature °C	touch dry minute	dry hours	Min.overcoating interval hours	Max.overcoating interval days
10	45	4	36	-
20	20	3	18	-
30	10	1	10	-

STORAGE:
Store in the original sealed packaging, in dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.

SHELF LIFE:
6 months in an original, unopened package.

COATINGS FOR TUNNELS

CHROMOS SVJETLOST®



KEMEPOX AQUA

KEMEPOX AQUA impregnation

DISPERVAN PRO

KEMEPOX AQUA

CHROMOS SVJETLOST®

CE
EN 1504-2

PRODUCT DESCRIPTION:
Two component water-dilutable coating based on epoxy resin. Prevents the penetration of harmful substances and water. It's intended to protect heavily loaded, new and old, concrete substrates.

COATING PROPERTIES:
It is suitable for protection and decoration of concrete surfaces, mineral wall surfaces, for finishing concrete substrates where greater mechanical resistance is required, decorative protection in craft workshops, laundries and warehouses. It is used as a protective decorative coating on concrete linings of tunnels, underground structures, etc. Resistant to temperature variations and no bublles formig.

Physical and chemical properties

ASSORTMENT:
It is produce in white colour, other shades at the customer's request.

NON-VOLATILE-MATTER CONTENT:
A component: 71 ± 73% (EN ISO 3251)

TYPICAL FILM THICKNESS:
Approx. 80 µm/one layer.

THEORETICAL SPREADING RATE:
0,2-0,45 kg/m^2 in two layers, depending on the absorbency and roughness of the substrate. Determine the exact consumption of the coating by makeing a test field on the object.

DENSITY:
A+B: 1,4 kg/l (EN ISO 2811-1:2016)

OPEN WORKING TIME AND DRYING OF THE COATING:

Working temperature°C	Pot life
10	2 h
20	1,5 h
30	1 h

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 140 g/l; max. 15 g/l (EN ISO 11890-1)

THINNER:
Pure water, max. 10 %.

SUBSTRATE PREPARATION:
The substrate must be completely dry, smooth, clean, free of loose parts, dust, grease stains, mold and other foreign substances and with a maximum moisture content of 3.5%. Before each painting, the substrate must be inspected and it's condition determined. All loose parts of the substrate and old coatings should be removed. The resulting unevenness, depending on their depth, fill with suitable plasters or levelling compounds. Substrates infected with algae and fungi should be cleaned with a cloth or brush and a solution of universal cleaning agents or by using high-pressure washers (adjust the water pressure and spray angle so that the facade is not damaged). After drying, treat with biocide solution Algenon or Algenon Plus. Wash greasy and heavily soiled parts with solution of potassium soap. The concrete base must be at least one month old. We recommend impregnating the substrates with Kemepox Aqua epoxy impregnation to reduce and even out the absorbency of the substrate.

Application characteristics

MIXING RATIO:
by volume – component A : component B = 8.95 : 4.07
by weight – component A : component B =10 : 3
Each component of the coating is packaged separately. They should be mixed in the prescribed ratio before use. The mixture should be used several minutes after mixing and before the pot life expiration.

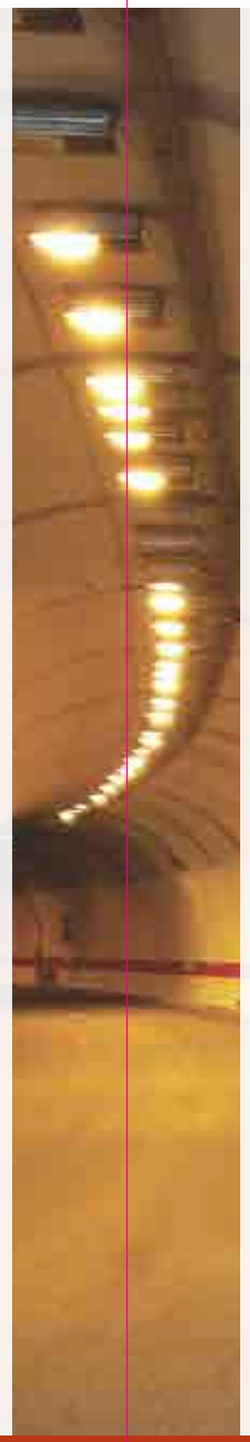
COATING APPLICATION:
Before use, mix the Kemepox aqua in the original packaging with a slow rotating mixer (stir Kemopox aqua in it's original packaging and stir hardener for Kemepox aqua in it's original packaging). Prepare the epoxy coating by adding Kemepox aqua hardener to Kemepox aqua and mix the mixture for 2-3 minutes. If necessary, dilute with water to the desired consistency for application, maximum 10%. Mix only the amount of paint that is sufficient for a single coating of the area that can be painted within approx. 1.5 h. Different production batches, as well as products tinted in the Top Mix system, must be cross mixed before use. Kemepox aqua is applied with paint brush, paint roller (fibre length between 18-20 mm) or airless spray in two layers. When using a roller use a suitable paint roller net. The second layer is applied only when the previous one is completely dry (approx. 4−6 h). For spray application of the material, use high-pressure devices, without filters, with nozzles in accordance with the device manufacturer's instructions. Spray the material at a 45 ° angle, followed by a roller to achive final apperance. In order to avoid visible points of connection and traces of the roller or brush, we recommend applying it "wet on wet", without interruption from one extreme end of the surface to the other. Subsequent repairs are not allowed. Additional paint correction during the application is not allowed (dilution, addition of colorants, etc.). Wash the tool immediately after working. Adhere to the applicable construction standards when applying the products.

WORKING CONDITIONS:
air temperature: min. +5 °C, max. 30 °C
relative humidity: max. 80%
substrate temperature: min. 3 °C above dew point

STORAGE:
Store in a dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 ° C. Protect it from freezing.

SHELF LIFE:
In unopened packaging 12 months from the date of production.

KEMEPOX AQUA impregnation



PRODUCT DESCRIPTION:
Two component water-dilutable impregnation based on epoxy resin. It is used as a primer to even out the absorbency of the substrate and improve the adhesion of Kemepox Aqua paint.

COATING PROPERTIES:
It is suitable for concrete surfaces, mineral wall surfaces. In the system with Kemepox Aqua paint it is used for finishing concrete substrates where greater mechanical resistance is required, decorative protection in craft workshops, laundries and warehouses. It is used as a primer on concrete linings of tunnels, underground structures, etc.

Physical and chemical properties

ASSORTMENT:
Transparentna.

NON-VOLATILE-MATTER CONTENT:
A component: 20-25% (EN ISO 3251).

TYPICAL FILM THICKNESS:
Approx. 30 µm/one layer.

THEORETICAL SPREADING RATE
0.14−0.18 kg/m^2 depending on the absorbency and roughness of the substrate. Determine the exact consumption of the coating by applying a test field on the object.

DENSITY:
A+B: 1,1-1,2 kg/l (EN ISO 2811-1)

OPEN WORKING TIME AND DRYING OF THE COATING:

Working temperature°C	Pot life
10	2 h
20	1,5 h
30	1 h

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(j), 140 g/l; max. 10 g/l (EN ISO 11890-1)

THINNER:
Pure water, max. 5 %.

SUBSTRATE PREPARATION:
The substrate must be completely dry, smooth, clean, free of loose parts, dust, grease stains, mold and other foreign substrances. Before each painting, the substrate must be inspected and its condition determined. All loose parts of the substrate and old coatings should be removed. The resulting unevenness, depending on their depth, fill with suitable plasters or leveling compounds. Substrates infected with algae and fungi should be cleaned with a cloth or brush and a solution of universal cleaning agents or by using high-pressure washers (adjust the water pressure and spray angle so that the facade is not damaged). After drying, treat the substrate with Algenon biocidal solution. Wash greasy and heavily soiled parts with a solution of potassium soap. The concrete base must be at least one month old.

CHROMOS SVJETLOST®

Application characteristics

MIXING RATIO:
by weight – component A : component B = 10 : 3
(Kemepox aqua impregnation: Hardener for Kemepox aqua impregnation = 10 : 3).
Mixing volume ratio 14.3 L of component A and 4.07 L of component B.

COATING APPLICATION:
Kemopox aqua impregnation is applied with paint brush, paint roller (fibre length between 18-20 mm) or airless spray. When using a roller use a suitable paint roller net. For spray application of the material, use high-pressure devices, without filters, minimal pressure of 50 bar, with nozzles in accordance with the device manufacturer's instructions. Spray the material at a 45 ° angle, followed by a roller due to achive final apperance. Wash the tool immediately after you finish the work. Adhere to the applicable construction standards when applying the products.

WORKING CONDITIONS:
air temperature: min. +5 °C, max. +30 °C
relative humidity: max. 80%
substrate temperature: min. 3 °C above dew point

STORAGE:
Store in a dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 ° C. Protect it from freezing.

SHELF LIFE:
In unopened packaging 12 months from the date of production.

DISPERVAN PRO

CHROMOS SVJETLOST®

CE
EN 1504-2

PRODUCT DESCRIPTION:
Acrylate paint for decorative protection of all loaded concrete surfaces from harmful substances and atmospheric conditions. The paint is resistant to alkaline substances and UV rays and covers surface cracks smaller than 0.1 mm.

COATING PROPERTIES:
It is used for the protection and decoration of all types of concrete and façade surfaces (plaster, tunnel linings, garages etc.) as well as for the restoration of old coatings of waterborne paint. It is intended for the protection of old and new surfaces from aggressive environmental influences such as high temperature fluctuations, aggressive impact of precipitation, aggressive impact of smog in city centres, salt spray and for the protection against the penetration of harmful gases.

Physical and chemical properties

ASSORTMENT:
It is produced in white, but by using the Top Mix tinting system it is possible to achieve a wide range of colours from the Chromos-Svjetlost colour chart as well as many other colour charts on the market.

NON-VOLATILE-MATTER CONTENT:
65 ± 5 % (EN ISO 3251).

TYPICAL FILM THICKNESS:
Approx. 80 µm/one layer.

THEORETICAL SPREADING RATE
0,2-0,25 l/m^2 depending on the absorbency and roughness of the substrate. Determine the exact consumption of the coating by applying a test field on the object.

DENSITY:
1,35 – 1,45 kg/l (EN ISO 2811-1)

VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
A(c), 40 g/l; max. 40 g/l (EN ISO 11890-1).

THINNER:
Pure water, to a maximum of 15%.

SUBSTRATE PREPARATION:
The surface must be completely dry and clean, without weakly bonded parts and free of dust, greasy stains, algae, fungi and other foreign bodies. Before every painting, the surface must be inspected and its condition established. All weakly bonded parts of the surface and old paint coatings must be removed. The resulting unevenness, depending on how pronounced it is, should be filled with appropriate restoration plaster or evened out using levelling compounds. Surfaces contaminated by algae and fungi should be cleaned using a cloth or brush and a universal cleaning solution or by using a pressure washer (adjust the water pressure and angle of the water spray so as not to damage the façade). After drying, treat the surface with Algenon or Algenon Plus biocidal solution. Greasy and heavily soiled areas should be cleaned with a Kalijev sapun solution. New surfaces should be coated with the Simpra universal primer, while old, highly porous surfaces should be coated with Simpra nano primer or Simpra multicontact. Dispervan Pro must be applied on a completely dry surface, at least 6 hours after the application of the primer, depending on weather conditions.

Application characteristics

COATING APPLICATION:
Before use, mix the product in the original packaging with a slow-rotating mixer. If necessary, dilute with a maximum of 15% of water, to achieve the consistency for application. The product can be used even if further diluted, but certain product characteristics can no longer be achieved (degree of gloss, coverage, degree of whiteness, resistance to wet washing, etc.). Dispervan Pro is applied using a painter's brush, short-haired fur or textile paint roller (hair length of 18-20 mm) or a spraying device (Airless, according to the manufacturer's instructions) in two layers. Apply products from the same production batch to the same surface. Different production batches, as well as products mixed through the Top Mix system, need to be equalized before use. When using the product, prepare a sufficient amount of the product to treat one surface, keeping the rest sealed in the original packaging. Do not store already diluted product! When applying the product by spraying, it is necessary to use protective equipment (safety glasses, respiratory protection, protective mask). When using a roller, use a suitable net for squeezing. A second coat is applied only when the previous one is completely dry. In order to avoid visible points of connection and traces of the roller or brush, we recommend applying it "wet on wet", without interruption from one extreme end of the surface to the other. Subsequent fixing is not allowed. We recommend that the paint first be applied along the edges of the walls with a brush, and then with a roller while evening out the points of connection. Any modifying of the product during painting is not allowed (thinning, adding colourants, etc.). Wash tools with water immediately after finishing applying the product. When carrying out the work, comply with construction regulations.

WORKING CONDITIONS:
air temperature: min. +5 °C, max. +30 °C
relative humidity: max. 80%

The product must not be applied to sunlit surfaces (the scaffolding must be fitted with a screen to protect against the sun or rain) or during rainy, windy and foggy weather. Low temperatures as well as high humidity prolong the setting time and can result in uneven colour. High temperatures in summer shorten the working time of the paint.

STORAGE:
Store in dry and ventilated areas away from direct sunlight at temperatures ranging from +5 °C to +25 °C. Protect it from freezing in winter conditions.

SHELF LIFE:
In unopened packaging 18 months from the date of production.

THINNERS

CHROMOS SVJETLOST®

SYNTHETIC thinner
KEMEPOX thinner
KEMOLUX PUR thinner
KEMOKRIL VA thinner

SYNTHETIC THINNER

PRODUCT DESCRIPTION:
SYNTHETIC THINNER is a mixture of organic solvents. It is used for diluting alkyd coatings, degreasing metals before using alkyd coatings and washing tools.

COATING APPEARANCE:
Clear, colourless liquid.

DENSITY:
0,78 kg/l (EN ISO 2811-1:2016) .

VOC CONTENT:
780 g/l.

STORAGE:
In accordance with the regulations on storage of flammable liquids.

SHELF LIFE:
Unlimited.

KEMEPOX THINNER

PRODUCT DESCRIPTION:
KEMEPOX thinner is a mixture of organic solvents used for diluting all KEMEPOX coatings, degreasing the surfaces to which they are applied and washing the tools used for their application.

COATING APPEARANCE:
Clear, colourless liquid.

DENSITY:
1,0 kg/l (EN ISO 2811-1:2016).

VOC CONTENT:
900 g/l.

STORAGE:
In accordance with the regulations on storage of flammable liquids.

KEMOLUX PUR THINNER

PRODUCT DESCRIPTION:
KEMOLUX PUR thinner is a mixture of organic solvents used for diluting all KEMOLUX PUR coatings, degreasing the surfaces to which they are applied and washing the tools used for their application.

COATING APPEARANCE:
Clear, colourless liquid.

DENSITY:
0,84 – 0,88 kg/l (EN ISO 2811-1:2016).

VOC CONTENT:
840 – 880 g/l.

STORAGE:
In accordance with the regulations on storage of flammable liquids.

SHELF LIFE:
Unlimited.

KEMOKRIL VA THINNER

PRODUCT DESCRIPTION:
KEMOKRIL VA thinner is a mixture of organic solvents intended for thinning of all KEMOKRIL VA coatings, degreasing of surfaces on which they are applied to and washing of tools used for its application.

COATING APPEARANCE:
Clear, colourless or slightly yellow liquid.

DENSITY:
0,9 kg/l (EN ISO 2811-1:2016).

VOC CONTENT:
860 g/l.

STORAGE:
In accordance with the regulations on storage of flammable liquids.

SHELF LIFE:
Unlimited.

VARIOUS CALCULATIONS

wet film → dry film = $\frac{\text{WFT x VDM\%}}{100}$

Film thickness (µm)

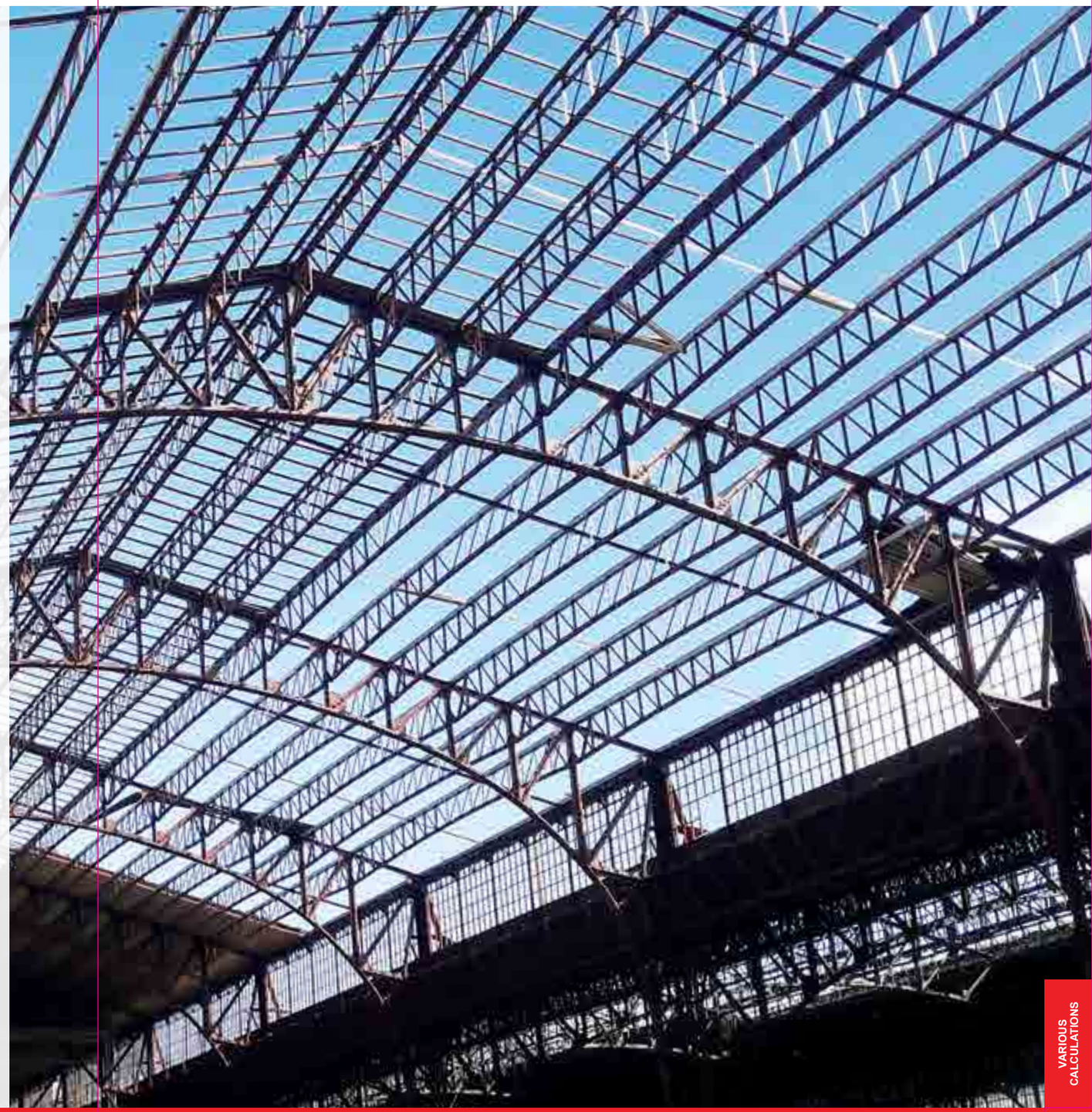
dry film → wet film = $\frac{\text{DFT x 100}}{\text{VDM\%}}$

WFT = wet film thickness (µm)
DFT = dry film thickness(µm)
VDM% = volume dry matter (%)

Theoretical consumption (l) = $\frac{\text{surface (m}^2\text{) x DFT (µm)}}{\text{VDM\% x 10}}$

Theoretical consumption (kg) = $\frac{\text{surface (m}^2\text{) x DFT (µm) x paint density (kg/dm}^3\text{)}}{\text{VDM\% x 10}}$

Practical consumption (l or kg) = $\frac{\text{surface (m}^2\text{) x theoretical consumption (l or kg) x (100 + loss factor (\%))}}{100}$



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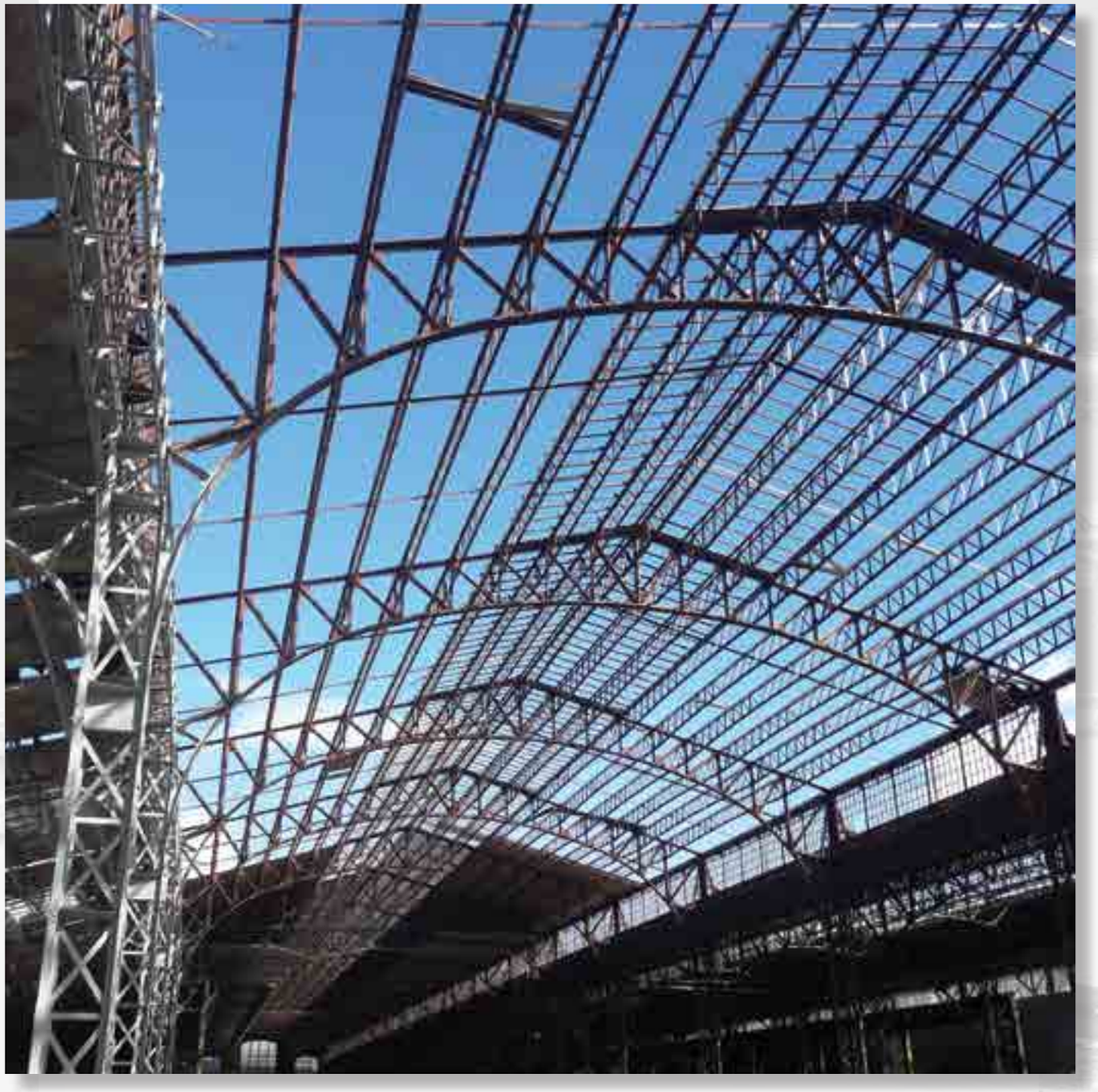

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