

KRYPTON PROLINE SILVER TC



Polyurethane coating filled with aluminium pigment

DESCRIPTION

Single pack moisture curing polyurethane coating filled with aluminium pigment. Primer and topcoat coating.

FEATURE

Application:

- At subzero temperatures down to -18°C.
- At high relative humidity up to 99%.
- With no dew point restrictions.
- With no restriction on the maximum recoating interval.
- Over different type of coating systems.
- Directly to surfaces of ferrous and non-ferrous metals as a single-layer coating as well.

Provided:

- Excellent resistance to atmospheric influence and abrasion.
- Improves anticorrosion and barrier properties due to the presence of aluminium pigment.
- Excellent resistance to UV and colour stability.
- Long-term protection in case of use in systems with other compatible Krypton coatings. Consult.

RECOMMENDED TO USE

Steel and concrete surfaces:

- For structures in medium, high, very high and extreme atmospheric corrosivity categories (C3, C4, C5 and CX - ISO-12944-2 / 2018).
- For structures immersed in fresh, sea or brackish water compatible with cathodic protection as well (Im1; Im2 and Im4 - ISO-12944-2 / 2018).

Non-ferrous metals:

- As an adhesive or protective layer.

COMPATIBLE COATINGS

Depending on the operating conditions the material can be used with different types of coating.

- Single pack, moisture cured polyurethane coatings (1pack PUR) of Krypton.
- Two-component epoxy (2pack EP) or polyurethane (2pack PUR) coatings of Krypton.

For details, please contact Krypton Chemical Technical Sales Support.

TECHNICAL DATA

Appearance	
Colour	Aluminium
Appearance	Semi-gloss coating
Material properties	
Volume solids	60 ± 2 %
Density (at +20 °C)	1.11 ± 0.05 g/cm ³
VOC value	<265 g/l
Dry heat resistance (ASTM D2485)	

- Prolonged exposure	145 °C
- Short-term exposure	175 °C
Impact Resistance (ASTM 2794)	>5 J

SURFACE PREPARATION

Surface type	Minimum	Recommended
Surface profile	Ry5 (30–75 µm) (ISO 8503-1)	Ry5 (30–75 µm) (ISO 8503-1)
Steel surfaces	Sa 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Surfaces of non-ferrous metals and stainless steel	Clean with alkaline solution, rinse with water. (SSPC-SP 1)	Light surface roughness (ISO 8501-2, ISO 12944-4)
Galvanized surfaces	Clean with alkaline solution, rinse with water. (SSPC-SP 1)	Light surface roughness (ISO 8501-2, ISO 12944-4)
Concrete Surfaces	SSPC-SP 13/ NACE No. 6	SSPC-SP 13/ NACE No. 6

AMBIENT CONDITIONS

Ambient conditions	
Air temperature	from -18 to +55 °C
Surface temperature	from -18 to +55 °C
Relative humidity*	30 – 99 %
Dew Point	Not limited. Surface to be dry to touch

Note:

- Do not apply coating during rain or snow, or if precipitation is expected before the applied coating becomes dry to touch.

For details, please contact Krypton Chemical Technical Sales Support.

THICKNESS & THEORETICAL SPREADING RATE

	Min.	Middle	Max.
Dry Film Thickness	40 µm	70 µm	100 µm
Wet Film Thickness	67 µm	117 µm	167 µm
Spreading Rate	15 m ² /l	8.57 m ² /l	6 m ² /l

Note:

- Practical coverage depends on the application conditions, type of structure to be painted, roughness of the surface and application method.

DRYING TIME

For DFT of 70 µm	-10°C	0°C	5°C	10°C	23°C	40°C
Dry to touch	4h	2h 30m	1h	1h	18min	12min
Dry to recoat with 1pack PUR, min / Dried to handle	25h	21h	13h 30m	10h	5h	2h
Cure for service	25h	21h	13h 30m	10h	5h	2h



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Note:

- There is no maximum overcoating interval.
- Drying and curing time determined at controlled temperature and relative humidity (RH) 60 - 80%.
- As the relative humidity of the air decreases, the curing time of the coating increases.

For details, please contact Krypton Chemical Technical Sales Support.

APPLICATION DATA

Stirring:

It is a single pack ready to use material. Prior to use, it must be thoroughly stirred with a low-speed mixer, avoiding air entrapment. Constant stirring is not required. Before opening and stirring the temperature of material must be between 5°C and 30°C.

Thinning:

The addition of thinner is usually not necessary. If necessary, ProLine Thinner / Rayston Thinner can be added up to 10% to the volume.

Note:

- If other than recommended thinners are used the manufacturer is not responsible for deterioration of coating quality.

Cleaning:

After work all equipment shall be cleaned with the thinner ProLine Thinner / Rayston Thinner.

For details, please contact Krypton Technical Sales Support.

APPLICATION METHODS

Application airless, brush and roller.

Spray application:

Airless spray is the main method of application. For other spraying methods, viscosity correction may be required.

Brush: application by brush.

Roller: application by roller.

PACKAGING

Volume (liters)	Size of containers (liters)
10	10

STORAGE & SHELF LIFE

The product must be stored in original sealed containers. The storage conditions are to keep the containers in a dry, well ventilated space away from source of heat and/or ignition.

Storage temperature	from 5 to 30 °C
Shelf life	6 months

Note: After lasting storage primer shall be stirred thoroughly until its precipitation is spread over the suspension homogeneously. Precipitation in primer does not change its properties or worsen its quality. After the expiration date has passed, it is necessary to check the quality of the paint material.

SAFETY

Use with adequate ventilation. Do not inhale aerosol. Avoid contact with skin. After contact with skin, wash immediately with detergent, soap and water. In case of contact with eyes, rinse immediately with water and seek medical advice immediately.

For detailed information on the health and safety protection for use of this product, see Safety Data Sheet (SDS).

IMPORTANT NOTE

The information contained in this TECHNICAL DATA SHEET, as well as our advice, whether written, verbal or provided through testing, is given in good faith based on our experience and the results obtained through testing carried out by independent laboratories, and is not intended as a guarantee for the user, who should take it as a guide only and for information purposes strictly informative value.

We recommend that you study this information in depth before using and applying any of these products, although it is particularly advisable to carry out tests "in situ" to determine the suitability of a treatment on site, for the purpose and under the specific conditions that exist in each case.

Our recommendations do not exempt the applicator from the obligation to have in-depth knowledge of the correct method of application of these systems before proceeding to use them, as well as to carry out any preliminary tests that may be appropriate if there is any doubt as to their suitability for any work, installation or repair, taking into account the specific circumstances in which the product is to be used.

The application, use and processing of our products are beyond our control and are therefore the sole responsibility of the installer. Consequently, the applicator shall be solely and exclusively liable for any damage or loss resulting from total or partial failure to comply with the user and installation manual and, in general, from the inappropriate use or application of these products.

This technical data sheet supersedes all previous versions.



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