

1411-1101 PROSMART EPOXY

Resin Type

Epoxy-Polyamide

Description

Prosmart Epoxy is a two-component, anticorrosive, epoxy based primer.

Characteristics

Adheres to the light metals and sheet metal surfaces,
High corrosion and humid resistance,
Suitable for wet-on-wet application,
Creates a plane surface for the air-drying topcoats which shall be applied on it.

Fields Of Use

Prosmart Epoxy is formulated for being used on any kinds of sheet metal particularly shipbuilding ,steel constructions, pontoons, buoys, trucks, trailers trucks; any kinds of motor vehicles and metal construction manufactures of the industrial facilities and any fields where humid and corrosion resistance is required.

Application

Surface Preparation:

Before Prosmart Epoxy has been applied, MAJOR 101 (1411-1106) should be applied on the surface as pre-production primer. Epoxy system can also be used directly as primer on the metal surfaces easily following surface preparations to be made.

If the Prosmart Epoxy Primer is used directly on metal surface, the surface preparation to be made so that the system can show the expected success is as important as the original application.

Any kinds of humid, chloride, sulphate salt, corrosion, rolled-in scale on the metal surfaces should be removed by grit spraying at Sa 2 ½ degree according to Sweden Standard SIS 05 5900 or mechanical method at St 2 standard. Besides, dust, dirt, oil and grease on the metal surfaces should be cleaned by cleaning materials and/or high-pressure water jet.

Welding burrs and sharp corners of the surfaces should be ground.

After the different cleaning procedures performed, surface should be cleaned by vacuum cleaner, clean and dry air or a clean brush.

After the related processes, there should be a slight metal glow on the surface and following this process, it should be applied on the surface preferably promptly and in 30 minutes at the latest.

Prosmart Epoxy Application:

Prosmart Epoxy Comp. A (1411-1101) is mixed well preferably by drilling motor after its package has been opened. Prosmart Epoxy Comp. B (1411-1501) is added at the recommended rate, then Epoxy Thinner (1451-1401) is added at the recommended rate for ensuring application viscosity of the mixture. The mixture gives the application viscosity. (Application viscosity should be adjusted as 19" - 23" / DC4 / 20°C in spraying applications, and as 25" - 40" / DC4 / 20°C in the brush and roller applications.) It is recommended that the primer should be applied so that dry film thickness of 80 - 100 µ. can be obtained. If wet-on-wet application shall not be performed, 4 hour waiting is required for acceptance of the coat following application of the second coat.



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On Prosmart Epoxy

1421-1104 Maxicoat HB
1421-1108 Pro-Smart EA

Can be applied as,

1231-1301 Ferromel Topcoat
1431-1301 Ferropox TPC
1432-1301 PRONOSOL
1531-1301 Pro-Star TPC
can be applied.

Notes

While Application:

Atmospheric temperature should be between 5 °C -50 °C
Surface temperature should be between 10 °C -30 °C
Relative humidity should be < 85 %

Important Reminders:

Required ventilation should be ensured in the closed areas for preventing any health problem or fire risk.

If it is preferred that primer and topcoat are applied together and wet-on-wet, minimum 60-minute waiting is required after application of primer providing that product properties of the topcoat are taken into consideration, as well.

When application of multiple coats without wet-on-wet application is required, a light sanding should be made between coats if 72 hours has passed.

Mixtures should be prepared in the amount complying with the work order and the work should be continued till this mixture is finished completely.

Upon completion of the work, all the coating equipment used during application should be cleaned well with Epoxy Thinner (1451-1401).

After application, the surface should not be contacted with water for minimum 36 hours.

7-day waiting is required before use of the coated surface for ensuring complete curing.

Technical Info

Prosmart Epoxy

Product Code

1411-1101

Color

Grey, Oxide Red

Gloss

Matt

Density

1,40 ± 0,05 g/ml (depending on color)

Solid, %

By Mass
By Volume

78 ± 3 (depending on color)
63 ± 5 (depending on color)



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Drying Time

Dust Dry	45 – 55 min. / 20°C
Touch Dry	1 – 1,5 h / 20°C
Montage Dry	48 h / 20°C
Complete Dry	7 days

Mixing Ratio

By Mass	7 Portion Prosmart Epoxy Comp.A (1411-1101) 1 Portion Prosmart Epoxy Comp.B (1411-1501) % 10 Portion Epoxy Thinner (1451-1401) The mixture gives the application viscosity.
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Pot Life

24 h / 20°C

Application Viscosity

19" - 23" / DC4 / 20°C (spray - airless)
25" - 40" / DC4 / 20°C (brush - roller)

Application Methods

Brush, Roller, Spraying (spray - airless)

Recommended Dry Film Thickness

80 - 100 µ

Theoretical Application Area

7 – 8 m² / lt (80 - 100 µ dry film thickness)

Package Life

Minimum 1 year for the unopened package.(at room temperature)

Flash Point

< 27 °C

General Warnings

Use with mask only in the well-ventilated areas and do not inhale.

The aforementioned product properties have been arranged according to the cutting-edge technology results and laboratory test results and they are based on recommendation. The described conditions and dominant local status and other materials to be used should certainly be taken into consideration during use of the product.

For achieving the best results, the convenient devices and application properties should be taken into account.

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