

Technical Data Sheet

Indopoxy 5100

Epoxy High Performance DTM (Direct-to-Metal) Finish

Product Description

Two component EPOXY based High Solid Fast Curing chemical resistance Direct-to-Metal Finish. Indopoxy 5100 contains Zinc Phosphate as Anti Corrosive Pigment and has excellent performance when exposed to moderate corrosive/ industrial environment.

Recommended Use

It is recommended as finish coat on Structures, Equipments, Valves, Pipe Lines, Transformer Tanks, Storage Tanks etc in Infrastructure projects, Bridges, Steel Plants, Heavy Electrical Industries or in General Industrial applications. Indopoxy 5100 provides anti corrosive barrier and chemical/ oil spillage resistance along with slip and abrasion resistance. Also recommended as primer or intermediate coat in 3 coat high performance system.

Physical Data

Colour	: Any IS/ RAL/ Custom Shades
Finish	: Semi Glossy to Glossy
Soild by Volume	: 67 ± 3%
Supply Weight (Kg/ Ltr)	: 1.40±0.05
Flash Point	: 26° C
Dry Heat Resistance	: Intermittent : 120°C, Continuous: 100°C
Shelf Life	: 12 months

Film Thickness

Recommended film thickness per coat

Dry Film Thickness	: 50-150µ in single coat
Wet Film Thickness	: 75-210µ in single coat
Theoretical Coverage Rate	: 8.50 sq.mt / lit at recommended DFT of 80µ

Surface Preparation

All surfaces to be coated should be clean, absolutely dry and oil or moisture free before painting application. Oil and grease should be removed by solvent cleaning.

Primed Surface: The primed surface should be dry and free from all contamination and Indopoxy 5100 should be applied within the overcoating intervals specified in primer TDS. Area of damaged primer or rework etc should be prepared as per specified standards, either by power tool cleaning or other means.

New steel: Abrasive blasting to Sa 2½ (ISO 8501-1:2007). For temporary protection, if required, use a suitable shopprimer. All damage of shopprimer and contamination from storage and fabrication should be thoroughly cleaned prior to final painting.

Maintenance: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning to St 3 (ISO 8501-1:2007) (minor areas) or by abrasive blasting to min. Sa 2, preferably to Sa 2½ (ISO 8501-1:2007). Improved surface preparation will improve the performance of the product.

Stainless steel: To be abrasive blast cleaned to a uniform, sharp, dense profile (ISO Comparator Medium (G), corresponding to Rz minimum 50 micron. Any salts, grease, oil, etc. to be removed before abrasive blasting is commenced.

Application Data

Application Method	: Spray/ Airless Spray/Brush/ Roller
Mixing Ratio	: 4 Part (Base) : 1 Part (Hardener)
Pot Life	: Three Hours at 30°C
Thinner and Cleaner	: Indopoxy Epoxy Thinner (IK.1501)
Airless Nozzle Orifice	: 0.43 - 0.58mm
Nozzle Pressure	: 155 kg/cm ² or 2200 psi

Working Precautions: Material should not be allowed to remain in pipeline, hoses, gun or spray equipment. Thoroughly flush all equipment with IK.1702 thinner. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages, the work should recommences with freshly mixed units.

Maintenance: Clean all equipment immediately after use with IK.1702 thinner. It is good working practice to periodically flush out spray equipment during the course of the working day. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

Drying Characteristics

Surface Dry	: 60 mins
Touch Dry (to Handle)	: 2 Hours
Hard Dry	: 24 Hours
Overcoating Interval	: Minimum 2 Hours

Drying and curing times are determined at 30°C under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Compatibility

Previous Coating	: Epoxy, Epoxy MIO, Inorganic Zinc Silicates
Subsequent Coating	: Epoxy, Polyurethanes, Alkyds, Modified Alkyds, Acrylics

Storage

This is solvent based coating and the containers should be kept in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed.

Caution

This product is for professional use only. The paint applicators should be trained, experienced and have the capability and equipment to mix and apply the coatings correctly as instructed. Applicators should use appropriate protection equipment when using this product.

This is solvent based product and should be use under well ventilated conditions. Do not inhale spray mist. Skin contact should be avoided. In case of spillage on the skin, it should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water.

Limitation of Liability

This information is given to the best of our knowledge. Because of the multitude of formulations, production, and application conditions, all the above-mentioned statements have to be adjusted to the circumstances of the processor. Our products are often used under conditions beyond INDOKOTE's control. INDOKOTE cannot guarantee anything but the quality of the product itself. No liabilities can be derived from this fact for individual cases. This issue replaces all previous versions – Printed in India.

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