INDöKöTE
INDUSTRIAL COATINGS BY NIPPON PAINT

NIPPON PAINT

Technical Data sheet

Indopoxy 4100SG

Product Description

Two-component EPOXY based High Solid and chemical resistance Direct-to-Metal Finish. Indopoxy 4100SG DTM contains specialized Anti Corrosion Pigments. It provides a tough coating with long-term protection and it has excellent performance when exposed to moderate corrosive/industrial environments.

Recommended Use

It is recommended as Mono Coat or Final Finish coat on Structures, Equipments, Valves, Pipe Lines, Storage Tanks etc in Infrastructure projects, Bridges, Steel Plants, Refineries Pipelines, Chemical Plants, Cement Plants, etc. Indopoxy 4100SG DTM provides a corrosive barrier and chemical/ oil spillage resistance along with slip and abrasion resistance. Also recommended as a primer coat in a 2 or 3-coat high-performance system.

Physical Properties

Composition : Epoxy Resin cured with polyamide

Volume Solids	: 58 ± 2%	**Temperature Resistance :**	
Mixing Ratio: Base: catalyst	: 4:1 (ByV/V)	Continuous	: 90^0 C
Pot Life:	: Min. 4 Hours @ 30 Deg.	Intermittent	: 120^0 C
Application	: Airless spray/Convetinal spray		
Recommended DFT	: 80-100 µ's per coat		
Recommended WFT	: 138-172 µ's per coat	**Abrasion Resistance**	: Good
Theoretical Spreading Rate	: 5.8 - 7.25 m^2/ ltr	**Colour**	: Assorted
Drying Time :		**Finish**	: Semi Glossy (40-50 Unit @60°)
Surface Dry	: Max. 2 hours @ 30^0C	**Packing** .	: 25 Ltrs
Tack Free	: Max. 6 hours @30^0C	**Thinner**	: Thinner 1501
Hard dry	: 18-20 Hours@30^0C	**Chemic resistanace:**	
Overcoating Interval :		**Acid & Alkali**	: Good
MIN.	: 12 - 16 Hours	**Oil resistance**	: Good
		Solvent	
MAX.	: 60 days	**Resistance**	: Good

The given drying data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness,ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc

Storage Life : Upto 12 months when kept under sealed and controlled condition.

Surface Preparation

Steel: Remove grease, oil and other contaminants preferably by Solvent Cleaning to SP 1. Abrasive blast clean to a minimum of SSPC SP10/Sa2.5. For severe corrosive conditions, blast to SSPC SP 5 with a surface profile not exceeding 35-52 microns. If blasting is not practical, make full use of mechanical tools along with manual chipping and wire brushing to remove loose rust and scale to SSPC SP 2 / SP3. Excessive burnishing of steel is to be avoided. Thoroughly dust down all surfaces. The surface should be clean and dry before application of primer.Hydro-blasting for maintenance structures is preferred choice where there are heavy deposits of contaminants. Ultra-high pressure hydro-blasting equivalent with light flash rusting as per standards NACE NO. 5 or SSPC SP 12- WJ2 and NV2 as referred in SSPC vis-5 pictorial standard

Appliaction Details

Stir components A and B separately and then mix the base and Hardener as per recomende mixing ratio. Stir well to homogeneous after mixing base and hardener and allow it to mature for 10-15 minutes stir again before use and during application. For **conventional Spray** Add thinner 1501 10-35% to get a proper application pattern. **Brush:** Apply preferably without thinning. However, add up to 5% Thinner 1501 if required during the application. Brushing is recommended for stripe coats and touch-ups of critical areas.

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For Airless Spray : Tip Size : 0.017” – 0.031”
Pressure at Nozzle : 180 – 200 kg/cm2
Thinner : Add thinner 5-10%

Recommended system:

Subsequent Coating : Epoxy, Polyurethanes.

Precautions

1. Do not apply in rain, fog or mist and when the surface temperature is 50^0C and above.
2. Material should be used under speculate pot life.
3. The spray machine hose and paint storage equipment should clean with thinner 1501 or 1702 to avoid blockage and damage.
4. Below 10^0 C and above 85% Relative humidity appliaction should be avoided. It creates paint defect.
5. application should be avoided when substrate temperature is less than 3^0C than the dew point temperature

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