INDöKöTE
INDUSTRIAL COATINGS BY NIPPON PAINT

NIPPON PAINT

Technical Data sheet

Indopoxy 700 ZR

Product Description

700ZR is two component polyamide cured high zinc contains, zinc rich epoxy primer. It provides very good corrosion protection as part of a complete coating system. To be used as primer in atmospheric environments.

Recommended Use

Indopoxy 700ZR is recommended for structural steel, tanks, pipe lines to be exposed to highly corrosive environments i.e C5I or C5M (ISO12944-2) in refineries, power plants, bridges, buildings, mining equipment and general structural steel le electrical transfomers etc. Recommended as a primer for coating systems where extended durability is required.

Physical Properties

Composition : Epoxy Resin cured with polyamide and pigmented with Zinc Dust

Volume Solids	: 50 ± 2%	**Temperature Resistance :**	
Mixing Ratio: Base: catalys	: 4:1 (ByV/V)	Continuous	: 100^0 C
Pot Life:	: Min. 3-5 Hours	Intermittent	: 120^0 C
Application	: Flow/Airless spray/Convetinal spray		
Recommended DFT	: 40-60 µ's per coat	**Flexibility**	: Moderate
Recommended WFT	: 80 - 120 µ's per coat	**Abrasion Resistance**	: Excellent
Theoretical Spreading Rate	: 8.33 - 12.5 m^2/ ltr	**Colour**	: Grey
Drying Time :		**Finish**	: Matt
Surface Dry	: Max. 20 Min. @ 30^0C	**Packing** .	: 25 Ltrs combi
Tack Free	: Max. 3 hours @30^0C	**Thinner**	: Thinner IK-1501
Hard dry	: 10-12 Hours@30^0C	**Chemic resistanace:**	
Overcoating Interval :		**Acid & Alkali**	: Very good with Intermediate & top Coat
MIN.	: 10 - 12 Hours	**Oil resistance**	: Very good with Intermediate & top Coat
MAX.	: 30 days	**Solvent Resistance**	: Very good with Intermediate & top Coat

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

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning. Damaged Area Damage area should be prepared with abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007). When abrasive blasting is not possible, mechanical cleaning to St 3 (ISO 8501-1:2007) is acceptable.

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 IK-1501 20-30% to get a proper application pattern. **Brush:** Apply preferably without thinning. However, add up to 5% Thinner IK-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 5-15%

Recommended system:

Intermediate Coat:

1. Indopoxy 645 MIO
2. Indopoxy 645 Radish Brown

Finish Coat:

1. Indothane 4080
2. Indothane 1067HS
3. Indothane 1070
4. Nippothane 4080HB

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.
4. The spray machine hose and paint storage equipment should clean with thinner 1501 or 1702 to avoid blockage and damage.
3. 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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