INDöKöTE
INDUSTRIAL COATINGS BY NIPPON PAINT

NIPPON PAINT

Technical Data sheet

Valuthane EP DT HS

Product Description

Two-component EPOXY based High Solid Fast Curing chemical resistance Direct-to-Metal Finish. Valuthane EPDT HS 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. Valuthane EPDT HS provides a corrosive barrier, chemical/ oil spillage resistance, and slip and abrasion resistance. It is 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	: 72 ± 2%	**Temperature Resistance :**	
Mixing Ratio: Base: catalyst	: 4:1 (ByV/V)	Continuous	: 100^0 C
Pot Life:	: 3 Hours	Intermittent	: 100^0 C
Application	: Airless spray/Convetinal spray		
Recommended DFT	: 90-120 µ's per coat	**Flexibility**	: Moderate
Recommended WFT	: 125-166 µ's per coat	**Abrasion Resistance**	: Excellent
Theoretical Spreading Rate	: 6 - 8 m^2/ ltr	**Colour**	: Assorted Shades
Drying Time :		**Finish**	: Semi Glossy (30-40 @60)
Surface Dry	: Max.90 min. @ 30^0C	**Packing** .	: 25 Ltrs
Tack Free	: 4-5 Hours@30^0C	**Thinner**	: Thinner 1501
Hard dry	: 16 - 18 Hours@30^0C	**Chemic resistanace:**	
Overcoating Interval :		**Acid & Alkali**	Very good
MIN.	: 16 Hours	**Oil resistance**	Very good
MAX.	: 30 days	**Solvent Resistance**	Very good

Storage Life : Upto 12 months of both the pack when kept under sealed and controlled condition.

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. Abrasive blasting to Sa 2½ (ISO 8501-1:2007). For temporary protection, Contamination from storage and fabrication should be thoroughly cleaned before final painting.

Appliaction Details

Stir the component A and component B separately and then mix the base and Hardener as per the recommended mixing ratio. Mix the paint properly after the addition of base and Hardener and allow it to mature for 10-15 minutes and 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, if required during application, add up to 5% Thinner 1501. Brushing is recommended for stripe coats and touch-ups of critical areas.Airless Spray: 10-25% Thinner 1501 may be added if essential depending on conditions.

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For Airless Spray : Tip Size : 0.017” – 0.027”
Pressure at Nozzle : 180 – 200 kg/cm2
Thinner Intake: 10-25%

Recommended system:

Subsequent Coating : Epoxy, Polyurethane, Alkyd, Acrylic

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 equipement should clean with thinner 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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