Technical Data sheet

Valuethane EPDT

Product Description

Two-component EPOXY based High Solid and chemical resistance Direct-to-Metal Finish. It 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. Valuethane EPDT 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	: 60 ± 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	: 133-167 µ's per coat	**Abrasion Resistance**	: Good
Theoretical Spreading Rate	: 6 - 7.5 m^2/ ltr	**Colour**	: Assorted Shades
Drying Time :		**Finish**	: Semi Glossy (40-50 GU @60°)
Surface Dry	: Max. 90 minutes @ 30^0C	**Packing** .	: 25 Ltrs
Tack Free	: Max. 5 hours @30^0C	**Thinner**	: Thinner 1501
Hard dry	: 12-16 Hours@30^0C	**Chemic resistanace:**	
Overcoating Interval :		**Acid & Alkali**	: Good
MIN.	: 12 - 16 Hours	**Oil resistance**	: Good
MAX.	: 60 days	**Solvent 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 25-35% 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.

Technical Data sheet

Valuethane EPDT

For Airless Spray : Tip Size : 0.017" – 0.031"
Pressure at Nozzle : 180 – 200 kg/cm2
Thinner : 5-10% by volume

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

Disclaimer

The information in this data sheet is given to the best of Nippon Paint's (Indokote Industries Pvt. Ltd. is 100% subsudary of Nippon Paint India Pvt. Ltd.) knowledge and practical experience. Users may consult with Nippon Paint on the general suitability of the product for their needs and specific application practices though it remains each user's responsibility to determine the suitability of the product for the user's particular use. The condition of the substrate and application are not within Nippon Paint's control. Therefore no implied conditions, warranties or other terms will apply to the Product. Nippon Indokote Paint does not and cannot warrant the results which the user may obtain by using the product. In no event will Nippon Paint be liable to the user for any kind of loss (whether direct or indirect) even if Nippon Paint was previously advised of it. In line with Nippon Paint's policy for continuous development, Nippon Paint reserves the right to modify the product and the information in this data sheet without prior notice. It is the user's responsibility to check with Nippon Paint for the latest version of this data sheet. Thisdata sheet has been translated into various languages. In the event of any inconsistency, the English version shall prevail

TDS No. 2024/01
Version: 00

NIPPON PAINT INDOKOTE INDUSTRIES PVT. LTD.
PLOT NO. 160, SECTOR 3, HSIDC GROWTH CENTRE, IMT BAWAL, HARYANA 123501
Phone : +91-9015400200
Help Desk: catalyst@nipponpaint.co.in, web site: www.nipponpaint.co.in