INDöKöTE
INDUSTRIAL COATINGS BY NIPPON PAINT

NIPPON PAINT

# Technical Data sheet

## Valuethane EP ZR 2K Primer

## Product Description

It is a two-component polyamide cured high build zinc rich epoxy primer. It provides very good corrosion protection as part of an anti-corrosion coating system. It provides a tough coating with long-term protection. It has excellent barrier action for steel structures especially when exposed to highly corrosive environments.

## Recommended Use

It is recommended as an undercoat on Steel Structures, equipment, Pipe Lines, Vessels, machinery, Storage Tanks, etc in Infrastructure projects, Refineries, Power Plants, transmission lines, etc. Highly 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** | : 45 ± 2% | **Temperature Resistance :** | |
| **Mixing Ratio:** Base: catalys | : 4:1 ( ByV/V) | Continuous | : 120$^0$ C |
| **Pot Life:** | : Min. 4 Hours | Intermittent | : 150$^0$ C |
| **Application** | : Flow/Airless spray/Convetinal spray | | |
| **Recommended DFT** | : 30-50 µ's per coat | **Flexibility** | : Moderate |
| **Recommended WFT** | : 66.6 - 111 µ's per coat | **Abrasion Resistance** | : Excellent |
| **Theoretical Spreading Rate** | : 9 - 15 m$^2$/ ltr | **Colour** | : Grey |
| **Drying Time :** | | **Finish** | : Matt |
| **Surface Dry** | : Max. 40 min @ 30$^0$C | **Packing** . | : 25 Ltrs |
| **Tack Free** | : Max. 180 minutes@30$^0$C | **Thinner** | : Thinner 1501 |
| **Hard dry** | : 8-10 Hours@30$^0$C | **Chemic resistanace:** | |
| **Overcoating Interval :** | | **Acid & Alkali** | Very good with intermediate and top Coat |
| **MIN.** | : 8 Hours | **Oil resistance** | Very good with intermediate and top Coat |
| **MAX.** | : 15 days | **Solvent Resistance** | Very good with intermediate and top Coat |

**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 the component A and 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 20-40% 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 coat and touch-up of critical areas.

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**For Airless Spray** : Tip Size : 0.017" – 0.031"

Pressure at Nozzle : 180 – 200 kg/cm2

Thinner Intake: 5-15%

## Recommended system:

Intermediate Coat:

1. Indopoxy 645 MIO
2. Epoxy Zinc Phosphate Primer
3. Epoxy Mastic - Indopoxy 690HSHB / Nippopoxy 692HSHB

Finish Coat:

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

## Precautions

1. Do not apply in rain, fog or mist and when the surface temperature is $50^0$C and above.
2. Material should be used under speculate pot life.
3. The spray machine hose and paint storage equipement 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 $3^0$C than the dew point temperature

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**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