

**GP Guardline 291  
EPOXY PHENOLIC NOVOLAC COATING**

<b>DESCRIPTION</b>	A two component, air drying, high Performance Epoxy Phenolic Novolac coating for tank lining with excellent chemical and solvent resistance. It has excellent resistance to wide range of chemical, solvent, caustic, crud and fuel oil, animal and vegetable oils ect..
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<b>RECOMMENDED USE</b>	It is mainly used as internal lining of storage tank, Shop tank, road tankers, barges, railroad cars in petrochemical and chemical industries
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**PHYSICAL DATA**

<b>COLOUR</b>	Selected Industrial shades
<b>FINISH</b>	Satin to Semi gloss
<b>SOLIDS BY VOLUME</b>	67 ± 3 %
<b>Theoretical Spreading Rate</b>	6.7 sq.mt / ltr at recommended DFT of 100 μ
<b>FLASH POINT</b>	Base: Above 25° C      Hardener: Above 25° C
<b>Dry Heat Resistance</b>	200°C max

**DRYING CHARACTERISTICS (At 30° C & 65% Relative Humidity)**

<b>SURFACE DRY</b>	4 hour
<b>HARD DRY</b>	24 hour
<b>FULL CURE</b>	7 Days
<b>SHELF LIFE</b>	BASE: 6 months      HARDENER: 6 months

**SURFACE PREPARATION**

All surfaces to be coated should be clean, dry and free from contamination. Oil or greases should be removed in accordance with SSPC SP1 Solvent cleaning. Where necessary remove weld spatter and smooth weld joints/seams and sharp edges.

**Abrasive Blast Cleaning**

Abrasive blasting to minimum Sa 2.5 Swedish Standards is must with a roughness profile of 50 - 75 microns. The surface should be absolutely dry, oil and salt free before application of the coating. The coating should be applied preferably immediately or within 4 hours after blasting for best performance. Incase it is extended; the surface should be cleaned, by sweep blast, to remove any flash rust that may have formed.

**APPLICATION DATA**

<b>MIXING RATIO</b>	Base: Hardener - As per our recommendation
<b>APPLICATION</b>	By Brush / By Spray
<b>THINNER</b>	002
<b>POT LIFE</b>	45 – 60 minutes at 25° C
<b>RECOMMENDED DFT</b>	100 - 125 μ
<b>OVERCOATING INTERVAL</b>	MIN : 8 hours MAX : 24 hrs

### APPLICATION METHOD

Stir the Base part thoroughly with help of power agitator. Mix the base and hardener as per our recommended ratio, by volume. Stir the mix gently to attain homogeneity. Allow the mixture to stand still (maturation) for about 5 – 10 minutes to initiate the reaction. Add Thinner Type 002 into the mix, depending on application method, and stir gently for few minutes. Strain the paint through Nylon filter and apply uniformly over the surface. All equipments used for above should be properly clean

Application: By Brush / By Airless Spray

Generally no thinner is required for application by Brush, However, under adverse environmental conditions; about 5% of thinner, by volume, can be added. Apply evenly in criss-cross manner and ensure the uniformity. Use quality brushes for paint application. It is suitable for small area only. Typically 50-75 micron can be achieved. It may be necessary to apply multiple coats to achieve the total specified system D.F.T

Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is difficult to achieve. Application by air spray may require a multiple cross spray pattern to attain maximum film build. Low or high temperature may require specific application techniques to achieve maximum film build.

#### For Airless Spray application:

Thinner: 002  
 Addition: 5% max if required  
 Nozzle Orifice: 0.43 – 0.53 mm  
 Nozzle Pressure: 2200 - 2500 p.s.i

#### For Conventional Spray application:

Thinner: 002  
 Addition: 5 – 10 % max  
 Nozzle Orifice: 3 mm  
 Nozzle Pressure: 40 – 70 p.s.i

### ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following section of Grand Polycoats Data manual:

- ⇒ Guide to Product Data Sheet
- ⇒ Surface Preparation Details
- ⇒ Paint Application Details
- ⇒ MSDS

#### Instruction:

1. Do not apply paint when temperature falls below 10<sup>0</sup> C or rises above 50<sup>0</sup> C and when Relative Humidity is above 85%. Do not apply during rain, fog or mist.
2. Brushes and spray equipment should be cleaned with GP's recommended thinner otherwise equipment is liable to be damaged.
3. Volume solids would vary depending on shades Products with different volume solids, different qualities is also available on requests.
4. DFT variation can be obtained by change in application method / thinning ratio. Contact Grand Polycoats representative for further assistance.
5. Shelf life indicated is minimum for this Product and it is subjected to re-inspection thereafter. Individual component is required to store in cool, dry and covered condition, away from heat and ignition.

### HEALTH & SAFETY

This is a solvent based paint and care should be taken to avoid inhalation of spray mist or vapours as well as contact between the wet paint and exposed skin or eyes.

### LIMITATION OF LIABILITY

To the best of our knowledge, the technical data in our literature are true and accurate at the date of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. We Make No Other Warranty Or Guarantee Of Any Kind, Express Or Implied, Including Merchantability And Fitness For Particular Purpose. Liability, If Any, Is Limited To Replacement Of The Product Or Refund Of The Purchased Price. Labour Or Cost Of Labour And Other Consequential Damages Are Hereby Excluded

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