



## BITUMEN EPOXY COATING

### DESCRIPTION:

**Gamma Bitumen Epoxy Coating** is a two-component, amine-adduct cured high build coal tar epoxy. It has excellent resistance to wear and impact as well as to sea water, waste water, fuel oil and to aliphatic solvents and it resists spillage of mineral acids and aromatic hydrocarbon solvents.



### USES:

It is recommended for long time corrosion protection of structural steel and concrete in severe corrosive and immersed environments. Typical areas are steel buried in aggressive soil, pipelines of steel and concrete, tanks containing fuel or lubrication oil, drill water, drill mud, warm water (see below) or steel and concrete in sewage treatment plants. Not for use in portable water tanks; may impart an odor to liquids. Not recommended for exposure to strong acids or immersion in strong solvents. It can be used as a self -priming product. It is also compatible with **Epoxy Primer ROX and / or Epoxy Primer Zinc Phosphate**.

### MAIN FEATURES:

- Excellent durability to all types of chemical environment.
- Outstanding adhesion to wide variety of surfaces.

### SURFACE PREPARATION:

- I. **New steel:** Oil and grease must be removed with suitable detergent, salts and other contaminants by (high pressure) fresh water cleaning prior to blasting. After blasting, clean the surface carefully from abrasives and dust. Abrasive blasting is the most effective method. Ensure surfaces are completely dry in depth and free of dirt, oil, grease or other contamination.
- II. **Maintenance:** On old steel surfaces having been exposed to salt water, excessive amounts of salt residues in pitting may call for wet abrasive blasting followed by dry abrasive blasting. Alternatively, dry abrasive blasting followed by high pressure fresh water cleaning, drying, and finally, dry abrasive blasting again.
- III. **Concrete:** Remove slip agent and other possible contaminants by emulsion washing followed by high pressure hosing with fresh water. Remove scum layer and loose matter to a hard, rough and uniform surface, preferably by abrasive blasting, possibly by other mechanical treatment or acid etching. Seal surface with suitable sealer.

*For Further Information, please contact us at:*

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### Physical Properties

Color	Black or Dark Brown
Finish	Semi-Gloss
Curing Mechanism	Cross linking reacting between epoxy and polyamide
Mixing Ratio	Base to Hardener (3 : 1 by weight)
Type of Solvent	Toluene /Xylene, Methoxy Propanol
Volume Solid	65 ± 1 %
Specific Gravity	1.01 ± 0.02
Flash Pont	30°C
VOC	350 gm / lt
Dry Film Thickness	50 – 55 µ for one coat
Theoretical Coverage	8.0 – 10 m <sup>2</sup> / lt. for one coat
Practical Coverage	Depends on nature of surface
Shelf Life	12 months

### Application Details

Substrate	Mechanically cleaned Steel or Concrete surface
Thinners	Normally not necessary. If desired, with Epoxy Thinner max. (5-10%)
Mixing	Mix base component uniformly before adding hardener, then combine at recommended ratio & mix thoroughly for at least 2-3 minutes. Keep the added mixtures for 5 – 10 minutes for complete reaction, before the start of application
Pot life@ 30°C	3 – 4 Hours
Application Condition	25°C – 40°C / 50 – 70 RH
Clean Up	With Epoxy Thinner
Application Method	Airless or conventional spray. Touch- up can be made with brush or roller
Drying Time @ 30°C	Tack-Free (3 – 4 Hours) in 60 – 70% RH. Recoat * (> 18 hrs & < 24 hrs)

\*If Recoat time is exceeded, slight sanding with sand paper is necessary, to create a surface profile.

### Performance Characteristics

Impact Resistance	> 140 cm.kg - By <b>ASTM – D 2794</b>
Flexibility	1 / 4" – By <b>ASTM – D 173</b> (By Conical Mandrel)
Hardness	ISO Class – I – By <b>ISO 2409</b> (By Cross Cut Hardness Tester)
Salt Fog Exposure	No Blistering / rusting for 1000 hours. – By <b>ASTM – B 117</b>
Safety Health & Environment (S.H.E)	<b>Handle with care</b> – Strictly follow the handling, storage and use instruction on paint cans and /or MSDS including the personal protection equipment necessary during application. Always preferred to apply in well ventilated areas.

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