

## HIGH GLOSS EPOXY FINISH

### DESCRIPTION:

**Gamma High Gloss Epoxy Finish** is a high build 2 components, polyamide adduct cured epoxy paint with low wetting properties and low water permeability. It is self priming and forms a hard and tough coating which has good resistance against abrasion, impact as well as to sea water, mineral oils, mild acid, aliphatic hydrocarbon and splashes from petrol and related products.



### USES:

High Gloss Epoxy Finish is recommended as a coating wherever chemical resistance is needed. It is specifically designed for the protection of steel and concrete surfaces in continuous immersion service and chemical environments.

### MAIN FEATURES:

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

### SURFACE PREPARATION:

Prepare surface by method suitable for exposure and service. Always clean off any contamination between coats prior to applying subsequent topcoats.

- Steel:** All surface contamination, rust, mill scale, previous coatings, and any foreign matter must be removed by dry abrasive blasting and coated within 8 hours or before visible rusting occurs. Round off all rough welds and sharp edges and remove weld spatter.
- Concrete:** New concrete must age 28 days before coating. Form release agents, curing compounds, salts, and previous coatings must be removed and surface properly prepared by mechanical abrasion, abrasive blast or acid etching. Surface must then be swept, vacuumed or flushed to remove all spent abrasives, dust and all other foreign matter.

**Note:** Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

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### Physical Properties

|                      |  |
|----------------------|--|
| Color                | White & Grey                                       |
| Finish               | Glossy   |
| 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         | 59 ± 1 %   |
| Weight Solid         | -  |
| Specific Gravity     | 1.23 ± 0.02  |
| Flash Point          | 30°C   |
| VOC                  | 400 gm / lt.                                       |
| Dry Film Thickness   | 50 - 60 µ per one coat                             |
| Theoretical Coverage | 9.5 – 10.5 m <sup>2</sup> / lt. for one coat       |
| Practical Coverage   | -  |
| Shelf Life           | -  |

### 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.<br>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 ASTM – D 2794   |
| Flexibility                         | 1 / 8" – By ASTM – D 173 (By Conical Mandrel)  |
| Hardness                            | ISO Class – I – By ISO 2409 (By Cross Cut Hardness Tester)   |
| Salt Fog Exposure                   | No Blistering / rusting for 1000 hours. – By ASTM – B 117  |
| 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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