

# WATERBLAZER EPFG-R

**High-build solvent free Food grade epoxy Coating system for Potable water tanks & Hygienic flooring**



## Product Description:

WATERBLAZER EPFG-R is a two component, solvent-free, epoxy resin self-smoothing, chemical resistant, Food grade coating system. It has excellent adhesion qualities, chemical resistant and glossy finish and easily cleaned.

It provides a dense, impervious, coloured and chemical resistant floor & wall surface which is hygienic and easy to clean. The cured film is non-toxic and meets the requirements of IS: 9833-1981.

## Application Areas:

Heavy duty concrete floor/wall coating in industrial and commercial plants such as warehouses, service stations, chemical plants, Food plants, metal treatment plants, internal car parking decks. Heavy duty concrete horizontal & vertical coating in industries such as Pharma, Food processing, Water treatment plants, Potable water storage tanks, Potable water pipelines, Biotechnology etc.

## Benefits:

- **Excellent wear under heavy traffic**
- **High flow characteristics combined with an attractive self-smoothing finish.**
- **Fast application - minimizes downtime.**
- **Chemically resistant - good resistance to a wide range of chemicals.**
- **Durable and good impact resistance.**
- **Hygienic & Food grade coating-provides a dense, impervious, seamless surface which is easily cleaned.**
- **Attractive - available in a wide range of colours to enhance the working environment.**
- **Solvent free, low odour and safe application.**

## Chemical Resistance:

|                          |           |
|--------------------------|-----------|
| Hydrochloric acid, 30% : | Excellent |
| Acetic acid, 10% :       | Good      |
| Sodium hydroxide, 50% :  | Excellent |
| Alcohol :                | Good      |
| Nitric acid, 20% :       | Good      |
| Sulfuric acid, 40% :     | Excellent |
| Ketones :                | Poor      |
| Petrol :                 | Excellent |

## Typical Properties (Technical Characteristics)

|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| Composition :            | Two components base and hardener                         |
| Form :                   | Pourable liquid                                          |
| Colour :                 | Available in various colours                             |
| Mixed density :          | 1.40 +/- 0.05gm/ml                                       |
| Solid content :          | 100 %                                                    |
| Pot life :               | 20 – 30minutes                                           |
| Full curing :            | 7 days                                                   |
| Shore A Hardness :       | 80 +/- 3 @ 7 days                                        |
| Compressive Strength :   | 75 N/mm2 @7 days (ASTM C579)                             |
| Tensile Strength :       | 12N/mm2@7days (ASTM C307)                                |
| Abrasion Resistance :    | 20mgsloss(CS17wheel/ (ASTMD4060) 1000gms/1000revolution) |
| Temperature Resistance : | Up to 85* C                                              |

### Direction for use:

**Surface Preparation:** All surfaces to be repaired must be clean, sound and dry, free of mould release agents, bond breaking coatings, curing compounds or any other form of contamination that may affect the bond strength of the epoxy coating. Remove them by mechanical means i.e. wire brushing & washing with water jet.

**Primer Coat:** Once the surface preparation is complete the concrete should be primed with WATERBLAZER EP-PRIME. The primer should be brushed into the surface using a stiff brush, broom or roller & allowed to dry (minimum 12 – 16 Hours) before the application of WATERBLAZER EPFG-R. In case of extremely porous substrate, two coats of primer are recommended. Allow the first coat to dry before applying the subsequent coat. The primer coat needs to be allowed to dry completely before laying WATERBLAZER EPFG-R

**Mixing:** WATERBLAZER EPFG-R is supplied in two component pack including base and hardener, which are ready for immediate on-site mixing. Part mixing of these components is not advisable and will affect both performance and appearance of the finished coat. Mixing should be carried out using either a forced action mixer or a heavy duty, slow-speed drill fitted with mixing paddle.

**Application process:** The components should be mixed accordingly as add the hardener (Part-B) to base (Part-A) and mixed for 2 - 3 minutes, until homogenous. After applying the first coat it should be allowed to dry for a minimum of 24 hours before application of the next coat. Do not mix material in quantities which cannot be applied within the workable time of the product.

### Coverage:

5 Sq. meter/liter @ 200 microns wet or DFT. Recommended thickness as 400 microns with 2 coats.

Allowance of 10% for wastage may be considered depends upon the application.

Note: The coverage figures mentioned above are theoretical. Due to wastage factors & the variety and natures of possible substrates porosity practical coverage figures will be vary.

### Precautions:

Substrates should be dry and not suffer, or be likely to suffer, from rising dampness. If necessary, suitable damp-proof membranes should be installed during construction to prevent this. Substrates should not have a relative humidity greater than 75% at the time of installation.

### Packaging:

6.5Kg, 14Kg kit.

### Storage & self life

Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. Self Life of the unopened kit is 12 months from the date of manufacturing.

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