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TECHNICAL DATA SHEET

FEDCOAT – GFEX

DESCRIPTION

FedCoat – GFEX is a two component polyamine cured epoxy coating. It is an abrasion resistant high volume solids, high build coating, specially designed to be used in areas with very high wear & abrasion challenges. It is **glass flake reinforced** for enhanced wear & abrasion resistance. It can be used as a primer, mid coat or final coat in atmospheric and submerged conditions. **FedCoat – GFEX** can be applied to all types of metal or concrete substrates.

PRINCIPLE USES

FedCoat – GFEX is intended as a coating for steel & concrete substrates where physical strength coatings are required. It is endorsed as an industrial strength coating in the Agricultural, Mining, Petro-Chemical, Food, Marine, Waste-Water, Military, Construction, Paper & Pulp, & Power Generation industries, as well as many other industries.

PERFORMANCE DATA

<u>Description</u>	<u>Results</u>
Pot Life (Minutes)	40 min (25°C)
Mix Ratio	2 : 1 (by volume)
Specific Gravity (g/ml)	1.4
Touch Dry (Hours) @ 25°C	4 hrs
Open Time / Over Coating Time @ 25°C	10 - 48 hrs
Hard Dry (Hours) @ 25°C	10 hrs
Walk on Dry (Hours) @ 25°C	24 hrs
Full Cure @ 25°C	7 days
Kit Size	15lt
Volume Solids	95% (+/-2)
Theoretical Coverage (m²)	1.4m² p/lt @800µm DFT Depends on wastage & surface profile
Indicated WFT / DFT	730µm / 700µm
Service Temperature	Atmospheric 120°C / Submerged (Water) 50°C
Shelf Life	36 months

ADVANTAGES

- Good abrasion resistance – glass flake reinforced.
- Good physical strength coating.
- Good resistance to high atmospheric temperatures.
- Adhesion promoted – can be used on all metal & concrete substrates
- No primer required on metal substrates if grit blasted to Sa 2½ (ISO 8501-1)

SURFACE PREPARATION

Mechanical preparation of the substrate is important before application of **FedCoat – GFEX**.

The substrate should be structurally sound and free of oil, dust and debris, grease, paint, corrosion deposits, laitance or other surface deposits. Metal surfaces should be prepared by grit blasting to Sa 2½ (ISO 8501-1).

On concrete surfaces **FedPrime MC808 Primer** must be used. The surface should be prepared by grit blasting or as per standard practice (mechanical grinding or acid etching) to expose aggregate surface or to achieve the necessary cleanness & roughness prior to the application of **FedPrime MC808 Primer**. Any porous or absorbed areas still showing after priming applications, should be primed again.

MIXING

Add all of Part B to part A and mix using a mixer with a mixing paddle at medium speed for 2-3 minutes until both components have fully dispersed and is homogenous. A **maximum of 10% FedThin Epoxy Thinners** may be used to thin the product. Ensure to rotate the mixer inside the container and into the corners of the container.

Only mix full packs.

APPLICATION

Apply **FedCoat – GFEX** to the recommended thickness (735µm WFT / 700µm DFT per coat) using an airless sprayer or brushes (for stripe coating only) to a cleaned and prepared surface. A written specification always supersedes any application guideline. Do not exceed 1300µm WFT per coat as it may cause sagging on vertical surfaces. Apply subsequent coats within 10 to 48 hours after application. Should the over coating time be exceeded, roughen the surface & wash the coating off with high pressure fresh water or solvent wipe to remove any surface salts & deposits prior to over coating.

CLEANING

Clean hands and skin immediately after use with industrial hand cleaner.

Clean tools and equipment immediately after use with **FedThin Epoxy Thinners**.

LIMITATIONS

- Application temperatures between 10°C and 40°C.
- Max service temperature is 120°C dry & 50°C submerged.
- Avoid excessive application.
- Avoid contact with skin.
- Do not release into sewer or surface water.

STORAGE AND STABILITY

Both **FedCoat – GFEX** Part A and Part B have a shelf life of 36 months when stored in unopened containers in a cool, dry place. Failure to do so will result in a reduction of shelf life.

SAFETY AND HANDLING

FedCoat – GFEX contains hazardous chemicals. Use only with adequate ventilation. Avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing and gloves should be worn when handling this product.

All sources of ignition should be removed. If exposed, eyes should be well flushed with water for 15 minutes and medical attention must be sought instantly.

This product is for professional use only. The applicators and operators must be trained, experienced and have the ability and equipment to apply the coatings correctly and according to specification. Applicators and operators must use the appropriate PPE when using this product. The safety procedures applicable to the handling of chemical materials should be read, understood and rigidly adhered to.

The information contained in this bulletin is, to the best of our knowledge true and accurate, but any recommendations or suggestions which may be made, are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.