



FEDERAL INDUSTRIAL LININGS

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TECHNICAL DATA SHEET

FEDCOAT - GFPE

DESCRIPTION

FedCoat-GFPE, is a multi-component glass flake reinforced poly ester coating with outstanding resistance to wear & abrasion. It is a high build, fast curing, high physical strength coating. It can be used as a primer, mid coat or final coat, in atmospheric and submerged conditions. **FedCoat-GFPE** is indicated for steel and concrete substrates. It does not require a primer when applied to sufficiently prepared steel substrates. It is supplied in Grey or White colours only.

PRINCIPLE USES

FedCoat-GFPE is used in areas subject to severe wear & abrasion challenges such as process plants, separation trays, pipe lines, hoppers, settling tanks, slurry tanks, direct burial tanks & pipes, primary & secondary containment areas, silos, agitating tanks, floors, chutes, conveyors, transporters, containment units, battery rooms, loading bays, mineral refineries, chemical plants, water & waste treatment plants, paper & pulp plants, sugar refining, food factories and in the marine industry.

PERFORMANCE DATA

Description

Results

Pot Life (Minutes)	40 min (25°C)
Service Temperature	90°C Atmospheric / 50°C Submerged
Touch Dry (Hours) @ 25°C	3 hrs
Over Coating Time (Hours) @ 25°C	3 - 24 hrs
Hard Dry (Hours) @ 25°C	8 hrs
Walk on Dry (Hours) @ 25°C	12 hrs
Full Cure @ 25°C	3 days
Pack Size	15lt kits
Volume Solids	94%
Theoretical Coverage (m ²)	1.3m ² p/lt @700µm DFT Depends on wastage and surface profile
Application Temperature	10 – 40°C
Shelf Life	8 months

ADVANTAGES

- Very good resistance to wear & abrasion
- No primer required on steel surfaces if grit blasted to Sa 2½ (ISO 8501-1)
- Can be applied by airless spray or brush (stripe coating only)
- Can be applied to steel and concrete substrates

SURFACE PREPARATION

Mechanical preparation of the substrate is important. The substrate should be structurally sound and free of oil, dust and debris, grease, paint, corrosion deposits, laitance or other surface deposits.

The surface should be prepared by grit blasting or as per standard practice to expose aggregate surface or to achieve necessary cleanliness & roughness. On concrete surfaces **FedPrime MC808 Primer** must be used. Any porous or absorbed areas still showing after concrete priming applications, should be primed again. Steel substrates should be grit / sandblasted to Sa 2½ (ISO 8501-1) prior to application, no primer required.

MIXING

Add 250ml of Part B (peroxide) to part A (@ 25°C) 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. In colder weather 50ml extra of Part B can be added. A maximum of 5% Styrene may be used to thin the product if required. Ensure to rotate the mixer inside the container and into the corners of the container.

APPLICATION

Apply **FedCoat-GFPE** at the specified thickness (700µm DFT / 740µm WFT per coat) using high pressure airless spray equipment, (brushes may be used 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 3 to 24 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.

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.

CLEANING

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

Clean tools and equipment immediately after use with Styrene or MEK.

LIMITATIONS

- Working temperatures between 10 and 40°C.
- Will not accommodate movement or cracks in the substrate.
- Avoid excessive application to reduce possibility of sagging.
- Avoid contact with skin.
- Do not release into sewer or surface water.

STORAGE AND STABILITY

Shelf life is 8 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-GFPE 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 data sheet 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.