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TECHNICAL DATA SHEET

FEDCOAT - STE

DESCRIPTION

FedCoat - STE is a two component polyamine cured surface tolerant epoxy coating. It is an abrasion resistant high volume solids glass flake reinforced coating, specially designed to provide excellent corrosion protection and can be used as a primer where grit/sandblasting is challenging. It can be used as a primer, mid coat or final coat in atmospheric and submerged conditions.

FedCoat - STE can be applied to all types of metal and concrete substrates.

PRINCIPLE USES

FedCoat - STE is intended as a coating or primer for steel, metal & concrete structures where surface preparation is difficult or challenging. It has good wear & abrasion resistance & minimal surface preparation is needed prior to application as the product is adhesion promoted in its design. It also has mild chemical resistance.

PERFORMANCE DATA

Description

Results

Pot Life (Minutes)	90 min (25°C)
Mix Ratio	4 : 1 (by volume)
Specific Gravity (g/ml)	1.5
Touch Dry (Hours) @ 25°C	4 hrs
Open Time / Over Coating Time @ 25°C	8 - 48 hrs
Hard Dry (Hours) @ 25°C	8 hrs
Walk on Dry (Hours) @ 25°C	24 hrs
Full Cure @ 25°C	7 days
Kit Size	5lt
Volume Solids	77% (+-2)
Theoretical Coverage (m²)	2 coats @ 5m²/litre/coat (170µ DFT per coat)
Indicated WFT / DFT	220µm / 170µm per coat
Service Temperature	Atmospheric 80°C / Submerged (Water) 50°C
Shelf Life	24 months

ADVANTAGES

- Easily applied by brush, roller or airless spray
- Good abrasion resistance
- Good resistance to high atmospheric temperatures
- Can be used on substrates where grit/sandblasting is not possible
- Adhesion promoted – can be used on all metal & concrete substrates

SURFACE PREPARATION

Mechanical preparation of the substrate is important before application of **FedCoat - STE**. 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 cleaning to a minimum standard of St 2 (ISO 8501-1) cleaning if grit or sandblasting is not possible.

MIXING

Premix base (Part A) and shake hardener (Part B) to disperse any settlement. 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. Ensure to rotate the mixer inside the container and into the corners of the container. **FedCoat STE** has an induction time of 10 minutes after mixing. A max of 5% **FedThin Epoxy thinners** is advised only if required. Only mix full packs.

APPLICATION

Apply **FedCoat - STE** to the recommended thickness (220µm WFT / 170µm DFT per coat) using an airless sprayer or brushes & rollers to a cleaned and prepared surface. 2 coats are recommended or as per specification.

A written specification always supersedes any application guideline. Do not exceed 400µm WFT per coat as it will result in “mud cracking” as it dries. Apply subsequent coats within 8 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 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** or Acetone.

LIMITATIONS

- Application temperatures between 5°C and 40°C.
- Max service temperature is 90°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 - STE** Part A and Part B have a shelf life of 24 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 - STE 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.

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