



TECHNICAL DATA SHEET – SS3-GF

Description:

SO411 SS3-GF is a glass flake reinforced, self-priming, two-component epoxy coating, polyamide/amine cured for severely exposed steel. This product is formulated as a two coat system to provide extended life for all severely exposed steel equipment and structures.

Recommended use:

High performance coating system for atmospheric or in-water service on steel. Suggested uses:

- Steel structures
- Pipeline and pump components
- Plant equipment
- Tank linings
- Valve assemblies
- Cooling water systems
- Water boxes

Features/Benefits:

- Heavy duty abrasion resistant
- Acid and chemical resistant
- Highly corrosion resistant
- Application by standard heavy duty airless spray equipment and conventional spray gun. Brush must be used for stripe coating. Roller not advised
- Excellent adhesion which resist under film corrosion.
- User friendly mix ratio 1 : 1

Technical Data:

<i>TEST TYPE</i>	<i>METHOD USED OR INSTITUTION</i>	<i>RESULT</i>
Combustion test	UI 214 Furnace, CSIR	Coating does not support combustion
Salt fog test	SABS Method 155	1000 hours
Artificial; weathering test	SABS Method 182	1000 hours
Brake fluid test	ATE, 207 hours, 95°	No sign of disintegration
Tainting and toxicity test	SABS Method 1271	The sample complies with the requirements of the SABS 1217 in respect of tainting and toxicity



Service temperatures: Dry exposure: Maximum 200 °C (Minimum -90 °C)
Wet exposure: 90°C immersed in water service (for other media to consult with the supplier)

Packaging: SO411 SS3-GF is available in 4liter and 10liter kits. The kits consist of two components (Component A and Component B) each with the same volume.

Chemical resistance: SO411 SS3-GF is suitable for exposure to high concentrations of acids,alkaline and chemicals.

PHYSICAL CONSTANTS:

Colours: Not restricted (Any colour required)

Finish: Semi Gloss

Theoretical spreading rate: 2 m² - 1.6 m²/ liter @ 400µm - 500µm dry (2 Coats)

Flashpoint: 27°C Closed Cup

Dry to touch: 18 hours at 5°C
9 hours at 10°C
4 hours at 20°C
2 hours at 30°C
2 hours at 40°C

Fully cured:
(for immersed service) 240 hours at 5°C
240 hours at 10°C
96 hours at 20°C
72 hours at 30°C
72 hours at 40°C

Note: Assembling of coated components for hydrostatic testing can start after 48 hours at 20°C. It is important that boxing up of the equipment does not start before 48 hours to allow sufficient curing.

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Dry to handle:

- 36 hours at 5°C
- 32 hours at 10°C
- 16 hours at 20°C
- 10 hours at 30°C
- 6 hours at 40°C

APPLICATION DETAILS:

Mixing ratio: Base: Curing agent
1:1 by volume

Induction Time: 30 minutes after adding component A and B

Application method: Airless spray only. Brush for stripe coating

Thinner: The use of a thinning agent is prohibited

Pot life:

- 4 hours at 10°C
- 2.5 hours at 20°C
- 1 hours at 30°C

Cleaning of tools: CA45 manufactured by Zayit

Indicated film thickness, dry: 200-250 µm per coat, 400-500 µm total DFT (2 coats)

Recoat interval, min: Recoating can proceed if the first coat is touch dry (Tacky)

Recoat interval, max: No recoating after 168 hours. If the 168 hours is exceeded the first coat need to be sanded to create a profile.

RECOMMENDED SUBSTRATE CODITIONS AND TEMPRETURES:

Preparation: Clean blasted steel substrate to a SA 2½ specification (70 to 80µm profile) is recommended. If abrasive blasting is not allowed alternative preparation methods e.g. St 2 is acceptable but not in immersed conditions.

Substrate temperature: At least 15°C



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MIXING INSTRUCTIONS:

Premix:

The B component GF to be stirred mechanically separately for 5 minutes before mixing together.

The A component GF is different from the normal Component A used for SO411 SS3 as it has the glass flakes added. It is therefore important that Component A GF must be stirred mechanically separately until the glass flakes is suspended in the liquid before mixing it with component B GF. When the glass flakes is in suspension after stirring component A GF must be added within a minute to component B GF as the glass flakes quickly settles in component A GF.

Mixing:

Mix both A and B components to a 1:1 ratio by volume mechanically during the induction time of 30 minutes.

NOTE:

For professional use only