



TECHNICAL DATA SHEET – SS3

Description:

SO411 SS3 is a 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:

As a universal primer or 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
- Electric motors and housings
- Water boxes

Features/Benefits:

- Abrasion resistant
- Acid and chemical resistant
- Corrosion resistant
- Application by standard heavy duty airless spray equipment and conventional spray gun, roller or brush.
- Excellent adhesion which resist under film corrosion.
- User friendly mix ratio 1 : 1

Technical Data:

TEST TYPE	METHOD USED OR INSTITUTION	RESULT
Abrasion resistance	Taber, ASTM 4060	100mg
Dry abrasion resistance	SABS Method 143	>100
Impact resistance	SABS Method 146, 6, 78J	<6.48
Adhesion	SABS Method 159, cross cut	10
Flexibility	SABS Method 141, mandrel 6mm	45°
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

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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 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 is suitable for exposure to high concentrations of acid, alkaline and chemicals.

PHYSICAL CONSTANTS:

Colours: Not restricted (Any colour required)

Finish: Semi Gloss

Theoretical spreading rate: 2.66 m² - 2.28 m²/ liter @ 300µm - 350µm dry (2 Coats)

Flashpoint: 27°C Closed Cup

Specific gravity: 1.26 kg / liter

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.



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 Component B

Application method:

Roller, brush or airless and conventional spray

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:

150-175µm per coat, 300-350 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



PRODUCT NAME: SO411 SS3

MIXING INSTRUCTIONS:

- Premix: The B component to be stirred mechanically separately for 5 minutes before mixing together.
- 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*