TECHNICAL DATA SHEET – OS2

Description: SO411 OS2 is a self-priming, two-component epoxy coating, polyamide/amine cured for mildly exposed steel . This product is formulated as a two coat system to provide extended life for all mildly exposed steel equipment and structures .

Recommended use: As an universal primer or high performance coating system for atmospheric or in-water service on steel . Suggested uses :

- Steel structures
- Pipeline coatings
- Plant equipment
- General corrosion protection

Features/Benefits:

- Abrasion resistant
- Acid and chemical resistant
- Corrosion resistant
- Applicable 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

Service temperatures: Dry exposure : Maximum 200 ºC (Minimum -90 ºC)
Wet exposure: 60°C exposed to process cooling water conditions.

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	45º
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, 95º	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

Packaging: SO411 OS2 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 OS2 is suitable for exposure to mild concentrations of acid ,alkaline and chemicals .

PHYSICAL CONSTANTS:

Colours:	Not restricted (Any colour required)
Finish:	Semi Gloss
Theoretical spreading rate:	3 m²/ liter @ 200µm dry (2 Coats)
Flashpoint:	>27˚Closed Cup
Specific gravity:	1.26 kg / liter
Dry to touch:	18 hours at 5ºC 9 hours at 10°C 4 hours at 20ºC 2 hours at 30°C 2 hours at 40°C
Fully cured:	240 hours at 5ºC 240 hours at 10°C 96 hours at 20ºC 72 hours at 30°C 72 hours at 40°C
Dry to handle:	36 hours at 5ºC 32 hours at 10°C 16 hours at 20ºC 10 hours at 30°C 6 hours at 40°C

APPLICATION DETAILS:

Mixing ratio:	Base: Curing agent 1:1 by volume
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 20ºC 1 hours at 30°C
Cleaning of tools:	CA45 manufactured by Zayit
Indicated film thickness, dry:	350µm achievable but recommended 200-250 µm dry.
Recoat interval, min:	24 hours at 5ºC 12 hours at 10°C 8 hours at 20ºC 6 hours at 30°C 6 hours at 40°C
Recoat interval, max:	168 hours at 5ºC 168 hours at 10°C 168 hours at 20ºC 168 hours at 30°C 168 hours at 40°C

RECOMMENDED SUBSTRATE CODITIONS AND TEMPRETURES:

Preparation:	Clean blasted steel substrate to a SA 2½ specification (70 to 80µm profile)
Substrate temperature:	At least 15°C

PRODUCT NAME :SO411 OS2

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*