# *TECHNICAL DATA SHEET – C8*

**Description:** SO411 C8 is a self-priming, two-component epoxy coating, polyamide/amine cured for concrete substrate. This product is formulated as a two coat system to provide extended life for all concrete substrates.

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

- Workshop floors
- Change house floors and walls
- Concrete bunkers
- Concrete tank linings
- Concrete water canals and pipes
- General corrosion protection on any concrete substrates

**Features/Benefits:**

- Heavy duty abrasion resistant
- Acid and chemical resistant and excellent adhesion.
- Corrosion resistant
- Applicable by standard heavy duty airless spray equipment and conventional spray gun, roller or brush.
- Seal thin dormant cracks in concrete floor and thereby protect rebar against moisture and corrosion.

**Service temperatures:** Dry exposure: Maximum 200 ºC (Minimum -90 ºC)
Wet exposure: 90°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 | $45^{o}$ |
| **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, $95^{o}$ | 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 C8 is available in 10 liter kits. The kits consist of two components (Component A and Component B) each with the same volume.

**Chemical resistance:** SO411 C8 is suitable for exposure to severe concentrations of acid, alkaline and chemicals.

***PHYSICAL CONSTANTS:***

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|---|---|
| Colours: | Not restricted (Any colour required) |
| Finish: | Semi Gloss |
| Theoretical spreading rate: | 2.6 m²/ liter @ 300µm dry (2 Coats) |
| Flashpoint: | >27ºC Closed Cup |
| Specific gravity: | 1.26 kg / liter |
| Dry to touch: | 18 hours at 5ºC<br>9 hours at 10°C<br>4 hours at 20ºC<br>2 hours at 30°C<br>2 hours at 40°C |
| Fully cured: | 240 hours at 5ºC<br>240 hours at 10°C<br>96 hours at 20ºC<br>72 hours at 30°C<br>72 hours at 40°C |
| Dry to handle: | 36 hours at 5ºC<br>32 hours at 10°C<br>16 hours at 20ºC<br>10 hours at 30°C<br>6 hours at 40°C |

***APPLICATION DETAILS:***

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| Mixing ratio: | Base: Curing agent<br>1:1 by volume |
| Application method: | Roller, brush or airless and conventional spray |
| Thinner: | The use of a thinning agent is prohibited |

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|---|---|
| Pot life: | 4 hours at 10°C<br>2.5 hours at 20ºC<br>1 hour at 30°C |
| Cleaning of tools: | CA45 cleaning agent manufactured by Zayit |
| Indicated DFT: | 300µm dry. |
| Recoat interval, min: | 24 hours at 5ºC<br>12 hours at 10°C<br>8 hours at 20ºC<br>6 hours at 30°C<br>6 hours at 40°C |
| Recoat interval, max: | 168 hours at 5ºC<br>168 hours at 10°C<br>168 hours at 20ºC<br>168 hours at 30°C<br>168 hours at 40°C |

***RECOMMENDED SUBSTRATE CODITIONS AND TEMPRETURES:***

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|---|---|
| Concrete strength: | Minimum 25 MPA |
| Preparation: | Substrate needs to be prepared by floor grinder to remove contamination and loose residue. It is not recommended that SO411 C8 is applied on any existing coating and therefore all existing coatings must be removed by floor grinder prior to application of SO411 C8. |
| Substrate temperature: | At least 15°C |

PRODUCT NAME: SO411 C8

***MIXING INSTRUCTIONS:***

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|---|---|
| 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*