

## DATA SHEET

### SSR-405 EPOXY COATING

**PRODUCT DESCRIPTION :** Green solvent-free epoxy coating, composed of 100% solids (no shrinkage).

**FUNCTION :** Rehabilitation or protection of existing structures. Allows for the improvement of the structural integrity of structures and/or the extension of their service life in the face of exposure to various acid and caustic agents, as well as abrasion and corrosion.

**COMPOSITION :** Combination of component A (white epoxy resin) and component B (green hardener), in a ratio of 3:1.

**METHOD OF USE :** Can be applied by paintbrush, roller or airless spraying. The best dosages and mixtures are obtained by using a Graco XP50 multi-component airless spraying system approved by Soleno Service.

**TEMPERATURE OF USE :** The temperature of the surface to be rehabilitated must be between 4.4°C and 48.9°C (40°F and 120°F).

**RECOMMENDED THICKNESS :** The thickness of the epoxy coating can vary from 40 to 200 mils. If necessary, SSR-405 epoxy coating can be applied in several coats, provided that the overlap range is respected.

**DRYING AND RECOATING TIME :** Drying time varies depending on layer thickness and weather conditions. The epoxy coating is generally dry to the touch after 3.5 hours, and completely dry after 5 hours.

Minimum recoating time : As soon as the surface becomes sticky, but does not transfer to touch, from 3 to 5 hours.

Maximum recoating time : 12 hours at a substrate temperature of 22.2°C (72°F). This interval is reduced at higher temperatures.

**TEMPERATURE RESISTANCE :** The SSR-405 can be used for a substrate temperature up to 65.6°C (150°F). However, it can also be used in environments up to 93.3°C (200°F) by undergoing post-cure heat treatment.

**MIXTURE SHELF LIFE :** 3.78 litres (1 gallon) can be stored for 20 minutes at 22.2°C (72°F). A longer shelf life can be achieved by mixing smaller quantities or by cooling components A and B before mixing them.

**STORAGE TEMPERATURE :** The acceptable storage temperature range is 15.6°C to 26.7°C (60°F to 80°F).

**SAFETY :** Material Safety Data Sheets for components A and B are available on request.

### TECHNICAL DATA TABLE

	PROPERTIES	TEST METHOD	VALUES	
			Metric	Imperial
PHYSICAL	Tensile Strength	ASTM D638	52400 kPa	7600 psi
	Elongation	ASTM D638	3.5%	
	Compressive strength	ASTM D695	124106 kPa	18000 psi
	Flexural strength	ASTM D790	89632 kPa	13000 psi
	Hardness (Shore D)	ASTM D2240	88	
	Abrasion resistance (Taber Test, CS-17 grinding wheel)	ASTM D4060 (1 load of 1kg -1000 cycles)	Loss of < 112 mg	
	Adhesion to steel (SSPC-10)	ASTM D4541	> 9653 kPa	> 1400 psi
	Adhesion to concrete	ASTM D7234	Substrate failure	
	60-day cathodic detachment : diameter of detachment	Spec. Con-Ed G8189-4	0.7 cm	0.276 po
	VOC	Calculated	0.0 kg/l	0.0 lb/gal

**APPLICATIONS :** Rehabilitation of manholes and catch basins  
Rehabilitation of large-diameter pipes  
Rehabilitation of tanks and basins

Rehabilitation of pumping stations  
Surface protection