

## Korepox 509

### Two Pack Polyamide Cured Epoxy

#### Product Description

Korepox 509 is a polyamide cured epoxy solvent based gloss finish. It provides good abrasion resistance and protection against spills and splashes from chemicals such as solvents, salt solutions, acids and alkali solutions.

#### Recommended Use

Intermediate and finishing coat for interior industrial concrete substrates and steel substrates in mild to aggressive industrial environments.

#### Product Information

Binder	: Epoxy
No. of Components	: 2
Solids (% by Volume)	: 45 ± 2 %
Flash Point	: 15.5°C (when mixed)
Colour	: Standard Color Range
Finish	: High Gloss

#### Application Information

Substrate	: Concrete and Steel
Recommended No. of Coats	: 1
Recommended Wet Film Thickness	: 110 to 165 µm / Coat
Recommended Dry Film Thickness	: 50 to 75 µm / Coat
Theoretical Spreading Rate	: 6 to 9 m <sup>2</sup> / L / Coat
Specific Gravity	: Approx. 1.13

#### Application Methods

Applied By : Brush / Roller / Spray / Airless Spray

\* Brush and Roller can be used

\* Airless Spray Recommended Tip Size: 0.28 - 0.38 mm (11 - 15 thou)

\* Airless Spray Recommended Pressure: 130 - 160 kg/cm<sup>2</sup> (1800 - 2300 psi)

Thinner : Thinner 56 (5% maximum addition)

Clean Up : Cleaner 12

#### Packaging & Storage

Packaging : 5.0 Litres (4 Litres Part A : 1 Litres Part B)

Shelf Life : 12 months - Unopened

Storage : Cool, dry and well ventilated area away from heat and direct sun light. Lid must be kept tightly closed.

<b>Curing Time</b>					
<b>Substrate Temperature</b>	<b>Touch Dry</b>	<b>Hard Dry</b>	<b>Overcoating Interval</b>		<b>Pot Life</b>
			<b>Minimum</b>	<b>Maximum</b>	
15 °C	8 hours	36 hours	30 hours	Indefinite	6 hours
25 °C	3 hours	16 hours	16 hours	Indefinite	4 hours
35 °C	2 hours	8 hours	8 hours	Indefinite	3 hours

\*The properties above may vary with surface temperature, site environment, film thickness, etc.

### Typical Painting System

#### Substrate: Concrete

<b>System</b>	<b>Product</b>	<b>No. of Coats</b>
Primer	Korepox EP118	1
Intermediate	Korepox 509	1
Finish	Korepox 509 or recommended KCC epoxy or polyurethane finish	1

#### Substrate: Steel

<b>System</b>	<b>Product</b>	<b>No. of Coats</b>
Primer	Recommended KCC Primer	1
Intermediate	Korepox 509	1
Finish	Korepox 509 or recommended KCC epoxy or polyurethane finish	1
Repair Coat	Touch up with Korepox 509	1

### Surface Preparation

All surface to be coated should be clean, dry and free from contamination as in accordance to ISO 8504. Oil and greasre must be removed by solvent cleaning as in accordace to SSPC -SP1. Korepox 509 should be applied over a KCC approved anti-corrosive primer. The primed surface should also be clean, dry and free from all contamination. Korepox 509 must be applied within the recommended overcoating intervals of the primer coat.

### Preapplication Conditions

- 1) The surface temperature should be 3°C above the dew point and should not exceed 50°C.
- 2) The relative humidity should be between 60% and 85%.
- 3) Paint application shall not commence when there is a likelihood of an unfavourable change in weather condition within 2 hours after painting.
- 4) The Hardener (Part B) should be added to the Base (Part A) slowly while stirring with a mechanical agitator. Ensure all components are mixed together in a uniform and homogenous manner before application.

### Product Limitations

Korepox 509 is recommended for atmospheric service only. In common with all epoxies, Korepox 509 will chalk and discolour on external exposure and weathering. This phenomenon is not detrimental to the paint's anti-corrosive performance. Korepox 509 is recommended to be overcoated with a durable high performance polyurethane finish for better weathering resistance. Maximum film build in a single coat is best achieved by airless spray. For brush and roller applications, multiple coats will be required to achieve the required DFT.

### **Safety Precaution**

This product is flammable and must be kept away from any source of ignition. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately. Keep out of reach of children.

Disclaimer : The above information is given to the best of our knowledge based on laboratory testing and practical experiences. The information in this data sheet may be subject to changes from time to time and without notice due to production refinements arising from continuing research and evaluation programmes, which may occasionally result in marginal changes in the coating properties.