



UPS 909 PP Porous Primer is an epoxy resin based solvent free thin film primer specifically developed to be used on concrete and cementitious surfaces. On curing the product consolidates the substrate and helps improve adhesion during application of other coating systems.

### **Product Features**

- Combines good application characteristics with excellent penetration and adhesion.
- Solvent free primer / sealer coat.

### **Product Applications**

Ideal for coating concrete floors, problematic cementitious surfaces.

**Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.**

### **Surface Preparation**

Remove any contamination and lightly abrasive blast or scarify taking care not to expose the aggregate. Allow new concrete to cure for a minimum 21 days and remove any surface laitance before coating.

Ensure the moisture content of the concrete is 8% or below.

The surface of the concrete must be 5°C (40°F) or above.

### **Mixing & Application**

Transfer the contents of the Activator unit into the Base container and mix thoroughly until a uniform material free of any streaks is achieved. From the commencement of mixing the whole of the material should be used within 45 minutes at 20°C (68°F).

Transfer the mixed material to a suitable paint tray or container and apply evenly to the substrate as soon as possible by means of a short nap roller. Over large areas a soft foam squeegee can be used to initially spread, with a roller coat to finish. Sufficient material should be applied evenly to satisfy the porosity of the substrate, take care to avoid ponding of material. Once cured the coating should have a semi gloss finish over

the whole floor, where there are signs of excessive porosity in the surface, the coating will have a dull finish. In such circumstances or where pinhole and weak spots are evident a second coat will be required.

## Technical Data & Performance

### Characteristics

#### Coverage Rates

4lt (1. US Gallon) of fully mixed product will give the following coverage rates -	
26.6m <sup>2</sup> at 150 microns	286ft <sup>2</sup> at 6mil

18lt (14.75US Gallon) of fully mixed product will give the following coverage rates -	
119.7m <sup>2</sup> at 150 microns	1,288ft <sup>2</sup> at 6mil
<i>Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.</i>	

#### Drying & Cure Times at 20°C (68°F)

Useable Life	45 minutes
Hard Dry	8 hours
Minimum Over Coating	8 hours
Light Loading	12 hours
Maximum Over Coating	24 hours
Full Loading	3 days
<i>Once hardener, the material should be left for the following periods of time at 20°C (68°F) before being subjected to the conditions indicated. These times will be doubled at 10°C (50°F) and halved at 30°C (86°F)</i>	

#### Appearance

Mixed Material Colour	Clear Pale Amber Liquid
Base Component Colour	Clear Water White to Very Pale Yellow Viscous Liquid
Activator Component	Clear Pale Amber Liquid

#### Over Coating Times

Minimum	The applied material can be over coated as soon as it is touch dry
Maximum	The over coating time should not exceed 36 hours
<i>Where the maximum over coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.</i>	

#### Shelf Life

5 years if unopened and store in normal dry conditions (15-30°C / 60-86°F)

#### Mixing Ratio

Component	Base	Activator
By Weight	2.24	1
By Volume	2	1

#### Density

Base	1.12
Activator	1.00
Mixed	1.08

#### Solids Content

100%

#### Slump Resistance

Nil at 150 microns

## Pack Sizes

This product is available in the following pack sizes:  
5LT (1 US Gallon), 18LT (4.75 US Gallon)

### Useable Life

20°C (68°F)	45 minutes
30°C (86°F)	20 minutes

### Mechanical Properties

<b>Adhesion</b> <b>Elcometer Pull Off</b> <b>Adhesion to Concrete</b>	Dry – 525psi (cohesive in substrate) 37kg/cm <sup>2</sup> Wet – 475psi (cohesive in substrate) 33.4kg/cm <sup>2</sup>
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<b>Tensile Shear Adhesion</b> <b>ASTM D1002</b> <b>(Abrasive Blasted Mild Steel with 75 micron profile)</b>	201kg/cm <sup>2</sup> (2,860 psi)  On Rusted Steel – 167kg/m <sup>2</sup> (2,375psi)
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<b>Compressive Strength</b> <b>ASTM D695</b>	629kg/cm <sup>2</sup> (8,945 psi)
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<b>Flexural Strength</b> <b>ASTM D790</b>	371kg/cm <sup>2</sup> (5,275 psi)
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<b>Hardness Shore D</b> <b>ASTM D2240</b>	20°C – 84
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**Quality:** All Unique Polymer Systems LTD Products are supplied under the scopes of the company's fully documented quality system.

**Warranty:** Unique Polymer Systems LTD warrants that the performance of the product supplied will confirm to the typical descriptions quoted within this Technical Data Sheet provided the material is stored correctly and used according to the procedures detailed in the Technical Data Sheet for the material.

**Health & Safety:** Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

**Legal Notice:** The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Unique Polymer Systems LTD accepts no liability arising out of the use of this information or the product described herein.