



UPS 814 CRS Chemical Resistant Screed is an epoxy based solvent free high build trowel screed. The product has been designed to be applied to uneven concrete surfaces subject to chemical attack from strong industrial chemicals. The material can be applied at a wet film thickness of 10 – 30mm (3/8" – 1 1/4"), on curing the product will resist Sulphuric acid, Hydrochloric acid and Phosphoric acid.

Typical Applications

Ideal for coating concrete floors, problematic cementations surfaces in warehouses, offices and laboratories.

Surface Preparation

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

Power Floated Concrete – Use a vacuum assisted shot blaster or floor grinder to remove weak laitance and provide a surface key for the coating.

Loose Paint or Rust – Remove using a vacuum assisted shot blaster or floor grinder or equivalent method.

Loose or Friable Concrete – Use a vacuum assisted shot blaster or floor grinder.

Oil or Grease – Use hot compressed air for large areas of contamination. Smaller, isolated deposits may be chemically cleaned with a standard degreaser product.

Mixing & Application

UPS 814 CRS consists of 1 x 4LT of UPS 814 CRS Resin & Activator (1 US Gallon), 1 x 20LT pail containing 24KG (52lb) of Grey Aggregate.

Pour the Activator into the Base container and mix using an electric paddle. Ensure all of the material is thoroughly mixed and streak free, pay attention to the sides and bottom of the container.

Once mixed, pour the contents of the container into a dual action mixer. Add half of the 24KG (52lb) pail of aggregate and begin to mix. Once the resin mix and aggregate have mixed and the remaining contents of the 20LT pail containing the aggregate.

Please ensure you pay attention to the bottom and sides of the mixer and ensure all of the contents are mixed properly.

WARNING!

In colder climates or when the product is being applied to concrete surfaces lower than 12°C (50°F), add 75% of the aggregate and check consistency of the mix. Colder temperatures will thicken the resin and therefore less aggregate is required to create a trowel-applied product. Just add part of the remaining 25% aggregate to create the correct level of consistency.

Once you have the correct consistency pour empty the contents of the mixer into 20LT pails and pour the mixed resin onto the floor. Spread the screed with a trowel or rubber squeegee and then smooth off to the correct level.

A Tip for a Better Finish – Once the repair area has been filled with material spray clean water onto the face of the trowel and skim the surface of the repair. This will give the UPS 814 CRS a smooth finish.

Technical Data & Performance

Characteristics

Coverage Rates

The practical coverage rate for 30KG (66LB) Pack of UPS 814 CRS is as follows -	
10mm wet film thickness – 1.35m ² per pack	40mil wet film thickness – 14.5ft ² per pack
20mm wet film thickness – 0.675m ² per pack	80mil wet film thickness – 7.25ft ²
30mm wet film thickness – 0.45m ² per pack	120mil wet film thickness – 4.85ft ² per pack
<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	20 – 25 minutes
Hard Dry	4 – 6 hours
Minimum Over Coating	4 hours
Light Loading	12 hours
Maximum Over Coating	12 hours
Full Cure	4 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>	

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 12 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>	

Appearance

Mixed Material Colour	Natural or Light Grey
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Pack Sizes

This product is available in the following pack sizes;
30KG (66LB)

Shelf Life

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

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.