

TECHNICAL DATA SHEET

UPS 805 ECLW EPOXY CONCRETE LIGHT WEIGHT



UPS 805 ECLW Epoxy Concrete Light Weight is a light weight solvent free epoxy repair mortar developed for use on concrete surfaces. The light weight nature of the material makes it ideal for repairs to overhead columns, sills and vertical concrete surfaces.

Product Information

Product Features

- Lightweight product.
- Can be used for overhead and vertical cement surfaces.
- Apply up to 50mm (2") without slumping.

Product Applications

UPS 805 ECLW is suitable for use in repairing;

Lintels, Walls, Sills and Ceilings.



Surface Preparation
Manual – Mechanical



Touch Dry in
8 hours



Primer is
Brush /
Roller
applied



Mortar is
Trowel
applied

Surface Preparation

All concrete surfaces must be free of all debris and loose material.

Clean Concrete

1. Clean the surface and any cracks or pitting of debris and contaminants using compressed air.
2. Vacuum the area to remove any debris or dust.

Coated Concrete

1. Scarify the surface of the concrete to provide a suitable surface for the material to bond.
2. Clean the surface using a handheld metal grinder.
3. Vacuum the area to remove any debris or dust.

Contaminated Concrete

1. Any contaminants (such as; oil or industrial chemicals) must be cleaned from the repair area.
2. Superficial surface contamination clean the area with a handheld mechanical grinder then vacuumed.
3. Deeper contamination advises the use of enzymes to clean the surface of oils/chemicals.

Mixing

Prior to mixing please ensure the following:

1. The base component is at a temperature between 15-25°C (60-77°F).
2. The ambient & surface temperature is above 10°C (50°F).

3. The ambient & surface temperatures are not less than 3°C (37.4°F) above the dew point.

Then proceed with mixing the product:

Primer

1. Pour the primer activator into the primer base pot and mix together until streak free using a spatula.
2. The Primer has a usable life of 20 minutes at 20°C (68°F).

Repair Mortar

1. Pour the aggregate activator into the plastic aggregate unit and mix together until streak free using a spatula.
2. The Primer has a usable life of 60 minutes at 20°C (68°F).

Application

Primer

Brush or Roller applications -

1. Use a brush or roller to apply the mixed primer to the repair surface. Taking care to press the primer into any cracks or pits.
2. Once the surface has been coated with primer leave to cure for at least 2 hours at 20°C (68°F).

Repair Mortar

Trowel applications -

1. Using a trowel to apply the mixed product to the primed repair surface.
2. If required 5-10mm layers of mortar can be applied (the product can be applied in a single coat up to 50mm thickness).
3. Once the repair area has been filled with the product leave to cure for at least 8 hours at 20°C (68°F).

Technical Data & Performance

Coverage Rates

2.5KG (2.5 LTR / 1.5 US Gallon) of fully mixed material will give the following coverage rates -

0.83m ² at 3mm	8.8ft ² at 0.11"
0.5m ² at 5mm	5.35ft ² at 0.19"
0.36m ² at 7mm	3.85ft ² at 0.27"
0.277m ² at 9mm	2.9ft ² at 0.35"

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

Drying & Cure Times

At 20°C (68°F) allow the applied materials to harden for the times shown below before subjecting them to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures.

Primer - Useable Life	20 minutes
Touch Dry	2 hours
Mortar - Usable Life	60 minutes
Touch Dry	8 hours
Full Cure	3 days

Appearance

Primer - Base Material Colour	Straw Liquid
Activator Material Colour	Amber Liquid
Mixed Material Colour	Natural Liquid
Mortar - Base Material Colour	Amber
Aggregate Colour	Grey
Mixed Material Colour	Grey Paste

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Available Colours

Grey | Natural

Over Coating Times

Minimum	The applied material can be over coated as soon as it is touch dry (approx. 8hrs)
Maximum	The over coating time should not exceed 24 hours

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.

Density

Mixed	1
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Solids Content

100%

Slump Resistance

Nil at 50mm

Useable Life

10°C (50°F)	2 hours
20°C (68°F)	60 minutes
30°C (86°F)	30 minutes
40°C (104°F)	15 minutes

Pack Sizes

2.5KG (1.5 US Gallon/ 2.5 LTR)

Shelf Life

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

Mechanical Properties

Direct Pull off Adhesion ASTM D4060	35kg/cm ² (500 psi)
Compressive Strength ASTM D695	420kg/cm ² (6000 psi)
Flexural Strength ASTM D790	280kg/cm ² (4000 psi)

Chemical Resistance

The product demonstrates resistance to a wide variety of inorganic acids, alkalis, salts and organic media.

Chemical	Concentration	Temperature
Sulphuric Acid	10%	40°C (104°F)
Sodium Hydroxide	50%	40°C (104°F)
Hydrochloric Acid	10%	40°C (104°F)
Phosphoric Acid	30%	40°C (104°F)

Global Availability

UPS 805 ECLW Epoxy Concrete Light Weight is available from a network of Global Distributors for prompt delivery. For further details and the location of your local distributor, please contact Unique Polymer Systems on:

+44(0) 1531 636300 | sales@uniquepolymersystems.com

Technical Service

Complete technical assistance is available. Please contact Unique Polymer Systems with your requirements:

+44(0) 1531 636300 | sales@uniquepolymersystems.com

The products that we supply are for professional use only, it is your responsibility to read the technical data sheets before you place an order and prior to application of the product.

Quality: All Unique Polymer Systems Products are supplied under the scopes of the company's fully documented quality system.

Warranty: Unique Polymer Systems 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 accepts no liability arising out of the use of this information or the product described herein.



USED ALL OVER
THE WORLD