



UPS 805 ECLW Epoxy Concrete Light Weight is a lightweight three-part solvent free epoxy repair mortar designed for use on cementations surfaces. The lightweight nature of the material makes it ideal for repair to overhead columns, sills and vertical concrete surfaces.

Product Features

- Combines good application characteristics.
- Designed for application by trowel or float.
- Can be used to form wall / floor covings.
- Excellent hold up on vertical and overhead surfaces.
- **Adhesion** – Excellent to correctly prepared surfaces.
- **Abrasion Resistance** – High order of resistance to abrasion and mechanical damage.

Product Applications

Suitable for repairs to overhead sill and vertical concrete structures.

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

Surface Preparation

1. The concrete surface must be free of all dust and loose materials.
2. Compressed air can be used to clean any thin hairline cracks or deep pitting.
3. For oil-contaminated surfaces an enzyme cleaner must be applied to the surface to ensure that all residual oil contamination is taken away from the repair area.
4. If required the surface of the concrete can be abraded using a mechanical grinder to ensure the repair material is adhering to a sound concrete surface.

Mixing & Application

Do not apply when the ambient or substrate temperature is below 5°C (40°F).

The 2.5KG (5.5LB) pack of UPS 805 ECLW contains the following items;

- 1 x Primer Base
- 1 x Primer Activator
- 1 x Aggregate Activator
- 1 x Bag of Aggregate incorporating Epoxy Resin

Priming – Pour the Primer Activator component into the primer Base component and mix with the spatula provided. Once streak free apply by brush the mixed primer material to the repair area. Ensure the primer is pressed into any cracks or pitting and the concrete surface is thoroughly soaked in the primer coating.

Once the primer has cured, pour the bag of Aggregate into the 5LT (1 US Gallon) white pail provided and then pour the Activator component in the 5LT (1 US Gallon) white pail.

For the best results use an electric paddle mixer to ensure the two components are thoroughly mixed.

Take the content of the 5LT white pail and using a trowel, apply the material to the damaged concrete surface.

For overhead or vertical surfaces the material must be applied in layers of up to 3-6mm (up to 1/4").

If the repair area is very deep then allow the product to cure before applying further layers of material.

For the best finish spray water onto the face of the trowel for the finishing skim as this will ensure a smooth finish.

If the repair area is to be over coated with an epoxy or polyurethane coating system then allow the repair surface to tack off and then roughen the surface with coarse sand paper to create a key for adhesion with the coating material.

Technical Data & Performance

Characteristics

Drying & Cure Times at 20°C (68°F)

| | |
|---|------------|
| Useable Life | 60 minutes |
| Movement Without Load or Immersion | 8 hours |
| Machining & Light Loading | 12 hours |
| Hard Traffic | 24 hours |
| <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> | |

Pack Sizes

This product is available in the following pack sizes;
2.5KG (5.5LB)

Shelf Life

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

Mechanical Properties

| | |
|---|-------------------------------------|
| Compressive Strength ASTM D695 | 420kg/cm ² (6000 psi) |
| Flexural Strength ASTM D790 | 280kg/cm ² 4000 psi |
| Direct Pull Adhesion ASTMD4541 | 35kg/cm ² 500 psi |
| Tensile Strength ASTMD683 | 160kg/cm ² 2300 psi |

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.
United Kingdom.