

TECHNICAL DATA SHEET

UPS 830 GP EPOXY PRIMER



UNIQUE POLYMER SYSTEMS

INNOVATE | REBUILD | ENHANCE

UPS 830 GP Epoxy Primer is a high-performance multi-purpose water-based epoxy primer for use on existing coated surfaces. It has been specifically developed to act as a tie coat over existing coated surfaces or onto a wide range of construction substrates.

UPS 830 GP has been formulated as part of the Unique Hygienic wall coating systems and can be used as a primer prior to the application of UPS 843 UV.

Product Information

Product Features

- Multi-purpose primer.
- Apply to a wide range of construction surfaces.
- Water based technology.

Product Applications

UPS 830 GP can be used on tiles, brickwork, plasterboard & concrete in the following areas;

Factory walls, Police Cells, Hospital walls, Laboratories, External surfaces, Warehouses, Food factories, Offices etc.,



Surface Preparation
Manual –
Mechanical –
Abrasive Blast



Brush /
Roller
Application



Useable
Life 90
minutes



Water
Based
Technology

Surface Preparation

Existing Concrete

1. Check the surface for contaminants (such as; oil or grease) and clean using a pressure washer.
2. Once concrete is dry, lightly abrasive blast/scarify (taking care not to expose the aggregate).
3. Clean all dust and debris from the surface.
4. Prior to application of UPS 830 GP, seal the surface using UPS 913 S with a short pile roller prior at a wet thickness 100 microns (4mils).
5. Once cured the surface of the concrete must have a uniform finish, overcoating any dull areas.

New Concrete

1. Let new concrete to cure for a minimum of 21 days (20°C - 68°F).
2. Check the moisture content of the concrete is 8% or below.
3. Lightly abrasive blast or scarify the concrete surface (take care not to expose the aggregate).
4. Clean all dust and debris from the surface.

5. Prior to application of UPS 830 GP, seal the surface using UPS 913 S with a short pile roller prior at a wet thickness 100 microns (4mils).
6. Once cured the surface of the concrete must have a uniform finish, overcoating any dull areas.

Plasterboard

1. Make sure that the plasterboard is dry and free from contaminants.
2. Prior to application of UPS 830 GP, seal the surface using UPS 913 S with a short pile roller prior at a wet thickness 100 microns (4mils).
3. Once cured the surface of the concrete must have a uniform finish, overcoating any dull areas.

Glazed Tiles

1. Degrease the tiles and grout to make sure the surface is free from contaminants.
2. Lightly abrasive blast or scarify the concrete surface (take care not to expose the aggregate).
3. Degrease the surface with hot soapy water and let dry.

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:

1. Transfer the contents of the Activator unit into the Base container.
2. Mix the 2 components with an electric paddle mixer until a uniform material free of any streaks is achieved.
3. From the commencement of mixing the whole material should be used within 90 minutes at 20°C (68°F).

Application

Brush or Roller Applications -

1. Pour the mixture into a paint kettle or tray (this will maximize the useable life).
2. Apply a 100mm (2") wide stripe coat to all edges, joints, corners and equipment with a 50mm (2") synthetic brush at a wet thickness at 75-100 microns (3-4mils).
3. Once the stripe coat has cured sufficiently for overcoating, apply the mixed product to all surfaces at 100 microns (6mils) wet thickness.
4. Once the 1st coat has cured appropriately, after about 4 hours at (20°C/68°F), apply a 2nd coat as before.

Technical Data & Performance

Coverage Rates

5 LTR (1.3 US Gallon) of fully mixed material will give the following coverage rates -

50m² at 100 microns 536ft² at 4mil

20 LTR (5.3 US Gallon) of fully mixed material will give the following coverage rates -

200m² at 100 microns 2146ft² at 4mil

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

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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.

Usable Life	90 minutes
Touch Dry	4 hours
Minimum overcoating time	4 hours
Maximum overcoating time	48 hours

Appearance

Base Material Colour	White liquid
Activator Material Colour	Pale Straw liquid
Mixed Material Colour	White liquid

Available Colours

White

Over Coating Times

Minimum	The applied material can be over coated as soon as it is touch dry (approx. 4 hrs) at 20°C (68°F)
Maximum	The overcoating time should not exceed 48 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.

Mixing Ratio

Component	Base	Activator
By Weight	2.5	1
By Volume	3	2

Density

Mixed	1.48
Activator	1.05
Base	1.76

Solids Content

45%

Slump Resistance

Nil at 150 microns

Useable Life

10°C (50°F)	3 hours
20°C (68°F)	90 minutes
30°C (86°F)	45 minutes
40°C (104°F)	22.5 minutes

Pack Sizes

5LTR (1.3 US Gallon) 20LTR (5.3 US Gallon)

Shelf Life

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

Mechanical Properties

Pull off Adhesion ASTM 4541	35kg/cm ² (500psi)
Humidity Resistance ASTM BS3900	5000 hours
Mould Resistance	Excellent
Bacteria Resistance	Excellent
Scratch Resistance Tested to ASTM BS3900	NO failure 2.5KG load

Heat Resistance

Suitable for use in wet conditions at temperature up to 70°C (158°F).

Resistant to dry heat up to 120°C (248°F) dependent on load.

Global Availability

UPS 830 GP Epoxy Primer 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 conform 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**