

# TECHNICAL DATA SHEET

## UPS 943 UV URETHANE WALL COATING



### UNIQUE POLYMER SYSTEMS

INNOVATE | REBUILD | ENHANCE

**UPS 943 UV Urethane Wall Coating** is a high-performance UV stable water-based coating. Designed for use on external and internal wall surfaces, the coating is based on a blend of water-borne acrylic and urethane polymers in combination with colour stable chemical resistant pigments.

Providing a coating which offers outstanding weather, chemical and abrasion resistance together with excellent gloss, graffiti resistance and colour stability

### Product Information

#### Product Features

- UV stable
- Graffiti resistant
- Flexible and hard wearing

#### Product Applications

Can be applied to Factory Walls, Food Factories, Offices, Warehouses, External surfaces, Factory Walls, Police Cells, Hospital walls.



Roller Applied



Brush Applied



Useable Life 90 Minutes



UV Resistant

### Surface Preparation

#### Metallic Substrates – Mechanical abrasion

1. All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
2. All surfaces must be mechanically abraded using handheld grinders to **ISO 8501/4 ST3 (SSPC SP3 ST3)**.
3. Once abraded, the surface must be degreased and cleaned using MEK or similar type material.
4. All surfaces must be primed with UPS 830 GP Epoxy Primer, applied at 100 microns (4mil) WFT.

#### Existing Concrete

1. If the concrete surface is contaminated, pressure wash using clean water.
2. Once the concrete is dry, lightly abrade or scarify taking care not to expose the aggregate.
3. Clean all dust and debris from the surface.
4. The surface must be sealed using UPS 913 S Acrylic Sealer Apply UPS 913 S Acrylic sealer using a short pile roller.

5. Apply the sealer at 50-75 microns (2-3mil) WFT. Once cured the surface of the concrete must have a uniform finish, any dull patches need to be overcoated.
6. Once the sealer has cured, approximately 2 hours at 20°C (68°F), prime all surfaces with 2 coats of UPS 830 GP Primer.
7. UPS 830 GP epoxy primer must be applied using medium pile rollers at a wet film thickness of 100 microns (4mil).

#### New Concrete

1. Allow new concrete to cure for a minimum of 21 days and treat to remove any surface laitance.
2. Check the moisture content of the concrete prior to coating (8% moisture content or below).
3. Lightly scarify the surface taking care not to expose the aggregate.
4. Clean all dust and debris from the surface.
5. The surface must be sealed using UPS 913 S Acrylic Sealer. Apply UPS 913 S Acrylic Sealer using a short pile roller.
6. Apply the sealer at 100 microns (4mils) WFT. Once cured the surface of the concrete must have a uniform finish, any dull patches need to be overcoated.
7. Once the sealer has cured, approximately 2 hours at 20°C (68°F), prime all surfaces with 2 coats of UPS 830 GP epoxy primer.
8. UPS 830 GP epoxy primer must be applied using medium pile rollers at a wet film thickness of 100 microns (4mil).

#### Plasterboard

1. Ensure the plasterboard surface is dry and free from contaminants
2. The surface must be sealed using UPS 913 S Acrylic Sealer. Apply UPS 913 S Acrylic sealer using a short pile roller.
3. Apply the sealer at 50-75 microns (2-3mil) WFT. Once cured the sealed surface must have a uniform finish, any dull patches need to be overcoated.
4. Once the sealer has cured, approximately 2 hours at 20°C (68°F), prime all surfaces with 2 coats of UPS 830 GP epoxy primer.
5. UPS 830 GP epoxy primer must be applied using medium pile rollers at a wet film thickness of 100 microns (4mil).

### 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 temperature are not less than 3°C (6°F) above the dew point. Once these 3 checks have been met, please proceed with mixing the product.
1. Transfer the contents of the Activator unit into the Base container.
  2. Using an electric paddle mixer, mix the 2 components until a uniform material free of any streaks is achieved.
  3. From the commencement of mixing the whole of the material should be used within 90 minutes at 20°C (68°F).

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### Application Instructions

Brush or roller applications

1. Pour the mixed material into a paint kettle or paint tray (this will maximize the usable life)
2. Using a 50mm (2") wide synthetic brush, stripe coat all edges, joints, corners and equipment with the mixed material. The stripe coat must be approximately 100mm (4") wide, at 100 microns (4mil) wet film thickness.
3. Once the stripe coat has cured sufficiently and is capable of being overcoated, apply the mixed product to all surfaces at 100 microns (4mil) wet film thickness.

Once the 1<sup>st</sup> coat has cured sufficiently, approximately 4 hours at 20°C (68°F), apply a 2<sup>nd</sup> coat of material at 100 microns (4mil) wet film thickness

### Coverage Rates

**2.5LTR (1.2 US Gallon) of fully mixed product will give the following coverage rates -**

45m<sup>2</sup> at 100 microns                      482ft<sup>2</sup> 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.*

### 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 high temperatures:*

<b>Useable Life</b>	90 minutes
<b>Touch Dry</b>	4 hours
<b>Minimum Overcoating Time</b>	4 hours
<b>Maximum Overcoating Time</b>	48 hours

### Pack Sizes

4.5LTR (1.2 US Gallon)

### Appearance

<b>Mixed Material Colour</b>	White Liquid
<b>Base Component Colour</b>	White Liquid
<b>Activator Component</b>	Pale Straw Liquid

### Available Colours

White

### Over Coating Times

<b>Minimum</b>	The material can be over-coated as soon as it is touch dry, approximately 4 hours at (20°C (68°F)).
<b>Maximum</b>	The over-coating 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.*

### Shelf Life

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

### Global Availability

UPS 943 UV Urethane Wall Coating 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**