TECHNICAL DATA SHEET
UPS EA5/EA9 WB EPOXY PRIMER AND TOPCOAT

UNIQUE POLYMER SYSTEMS
INNOVATE | REBUILD | ENHANCE

UPS EA5/9WB Epoxy Primer & Topcoat is a two-component water-borne epoxy primer / topcoat and single-coat paint.

Product Information

Product Features

- Very good resistance against mechanical and chemical stress.
- Resistant to diesel and biodiesel fuel.
- Fast curing and environmentally friendly (low VOC).
- Used as a topcoat or as a single coat paint in epoxy paint systems for steel surfaces.
- Excellent adhesion and surface tolerance.
- Extremely fast cycle times.
- Can also be used as a primer or an intermediate coat in epoxy and polyurethane coating systems.

Product Applications

UPS EA5/EA9 WB is suitable for use on surfaces, such as;

Framework, Service Platforms, Steelwork, Machinery etc.,

Surface Preparation Manual – Mechanical – Abrasive Blast

Brush / Roller Applied

Fast Curing

Airless Spray Applied

Surface Preparation

1. All oil and grease must be removed from the surface using an appropriate cleaner such as UPS 9918 MEK Cleaner.

Steel Surfaces – All surfaces must be abrasive blasted to **ISO 8501/1**. If this is not possible, it is recommended to phosphate on cold rolled steel.

2. Once blast cleaned, the surface must be degreased and cleaned using UPS 9918 MEK or similar type material.
3. All surfaces must be coated before flash rusting or oxidation occurs.

Primed Surface – All oil and grease must be removed from the surface using an appropriate cleaner such as UPS 9918 MEK Cleaner. Repair any damage to primer coat and not cure time of primer.

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). Relative humidity should not exceed 70%.
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. Mix both the base and activator prior to combining.
2. Combine the required ratio of base and activator together in a container.
3. Mix the components with an electric paddle mixer until a uniform material free of any streaks is achieved.

Application

Brush Applications -

1. Pour the mixture into a paint kettle or tray.
2. Apply the mixed product to all surfaces at 160 microns (7mils) wet thickness.

PLEASE NOTE: This product can be thinned 0-10%

Spray Application – Spray application should be applied using an airless spray with a pump with attached hot water pump. Keep temperature at 25 - 35°C (77-95°F). Spray using 140 – 200 bar with a tip size of 0.011 – 0.015 inches. Circulate product to get appropriate temperature. Apply at a wet film thickness of 160 microns.

Technical Data & Performance

Coverage Rates

Theoretical Coverage	Recommended Film Thickness	
-	Dry	Wet
7.7m²/LTR	60 microns	130 microns
4.7m²/LTR	100 microns	215 microns
3.9m²/LTR	120 microns	225 microns

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

Thinner

Water

Pot-Life (23°C)

1.5 hours

Solids Volume

47 ± 2% (ISO 3233)

Weight Solids

62 ± 2%

Drying & Cure Times

At 20°C (68°C) 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.

DFT 100 microns	+15°C	+23°C	+35°C
Dust Dry, After	4hrs	2hrs	1hrs
Touch Dry, After	8hrs	5hrs	2hrs
Re-Coatable by Itself, Min. After	16hrs	6hrs	4hrs
Re-Coatable Without Roughing, Max. After	7 days	5 days	2 days
Fully Cured, After	14 days	7 days	3 day

Drying and re-coating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

VOC

EU VOC 2004/42/EC-Limit Value – The Volatile Organic Compounds amount is 60gm/lt of paint mixture. VOC content of the paint mixture (thinned 10% by volume is 55 g/lt.

Available Colours

RAL, NCS, SSG, BS, MONICOLOR NOVA & SYMPHONY colour cards.

Gloss Group

Semi-Gloss

Mixing Ratio

Component	Base	Activator
By Volume	1	1

Density

Mixed	1.4 KG/LTR (Mixed)

Pack Sizes

10LTR (2.6 US Gallon)

Shelf Life

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

Global Availability

UPS EA5/EA9 WB Epoxy Primer and Topcoat 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 I sales@uniquepolymersystems.com

Technical Service

Complete technical assistance is available. Please contact Unique Polymer Systems with your requirements:
+44(0) 1531 636300 I 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