

TECHNICAL DATA SHEET

UPS 782 HAE HEAT ACTIVATED EPOXY



UPS 782 HAE Heat Activated Epoxy is a single component solvent free heat activated epoxy coating which is activated at temperatures above 100°C and can resist highly corrosive environments up to 200°C. UPS 782 HAE is ideal for the protection of surfaces where Corrosion Under Insulation (CUI) is prevalent.

Product Information

Product Features

- Applied in 2 coats at 250-300 microns per coat
- Advanced curing system – Apply at temperatures ranging from 100 – 200°C.
- Apply by standard airless spray
- High bond strength top metals, polyethylene and polypropylene.

Product Applications

UPS 782 HAE is suitable for application to;

Hot pipework, process vessels, tanks etc.



Surface Preparation
Mechanical –
Abrasive Blast



Touch Dry
2 hours



Apply at
Temperatures
Ranging
Between 100-
200°C



Brush /
Roller /
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.
2. All surfaces must be abrasive blasted to **ISO 8501/4 Standard SA2.5 (SSPC SP10 / NACE 2)** minimum blast profile of 75 microns (3mil) using an angular abrasive.
3. Once blast cleaned, the surface must be degreased and cleaned using UPS 9918 MEK or similar type material.
4. All surfaces must be coated before flash rusting or oxidation occurs.

PLEASE NOTE: For salt contaminated surfaces the area must be abrasive blast cleaned as above, as well as left for 24 hours to allow any ingrained salts to come to the surface. After the 24-hour period the surface must be washed with UPS 9918 MEK Cleaner prior to brush blasting to remove the surface salts. Repeat this process until all ingrained contaminants have been sweated out of the surface.

Where abrasive blast cleaning is not possible (excluding salt contaminated surfaces) the surface should be roughened by UPS MiniBlaster, Needle Gun or Grinding.

Mixing

Prior to mixing please ensure the following:

1. The ambient & surface temperatures are not less than 5°C (41°F) above the dew point or the relative humidity is above 90%.

Then proceed with mixing the product:

1. The UPS 782 HAE is a single component product and requires no mixing.

Application

Brush or Roller applications -

1. Under normal condition apply the product by brush or roller in two coats at a thickness of 250 microns (10mil) per coat.
2. The product will stay in an unsolidified state until it has been heated to at least 90°C (195°F), ideally it should be heated to 100°C (212°F).
3. Apply the 2nd coat should be applied as soon as the first coat has become stable, no more 2 hours after it has got to this point.
4. Where the maximum overcoating, time has been exceeded the surface material should be allowed to fully harden before being blasted, cleaned and coated.

Spray Application – Spray application should be applied using an airless spray with attached hot water pump. Keep temperature at 50 - 60°C (122-140°F). Circulate product to get appropriate temperature. Apply in a single coat in a number of passes.

Technical Data & Performance

Coverage Rates

4 LTR (1.25 US Gallon) of fully mixed material will give the following coverage rates -

16m² at 250microns 172ft² at 10mil

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

Cure times are dependent on the cure temperature as dictated in the table below.

Temp	Touch Dry	Light Loading	Full Loading
100°C (212°F)	50 mins	2 hrs	24 hrs
110°C (230°F)	35 mins	70 mins	16 hrs
120°C (248°F)	25 mins	50 mins	12 hrs
130°C (266°F)	15 mins	30 mins	8 hrs
140°C (284°F)	7 mins	15 mins	6 hrs
150°C (302°F)	3 mins	7 mins	4hrs

Appearance

Material Colour Red thixotropic material

Available Colours

Red

Over Coating Times

Minimum	The applied material can be over coated as soon as it is touch dry
Maximum	The overcoating time should not exceed 6 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 1.40

TECHNICAL DATA SHEET

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Volume Capacity

714cc/Kg

Solids Content

100%

Slump Resistance

Nil at 500microns

Pack Sizes

4LTR (1.25 US Gallon)

Shelf Life

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

Mechanical Properties

Tensile Shear Adhesion ASTM D1002	197kg/cm ² (2800 psi)
Shore D Hardness ASTM D2240	20°C – 90 100°C – 86 150°C – 80 200°C – 72
Corrosion Resistance ATSM B117	Minimum 1000 hours

Chemical Resistance

The product demonstrates resistance to a wide variety of inorganic acids, alkalis, salts and organic media. Refer to the Unique Polymer Systems Technical Centre for advice.

Global Availability

UPS 782 HAE Heat Activated Epoxy 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**

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