

# TEST DATA

## UPS 225 HT HIGH TEMPERATURE CERAMIC

### UPS 225 HT HIGH TEMPERATURE CERAMIC – TEST DATA

Unique Polymer Systems (UPS) has developed a high temperature resistant coating capable of withstanding continuous immersion in Water and Hydrocarbons up to 130°C. The product is a two-pack solvent free epoxy novolac coating which is applied by brush to abrasive blast cleaned metallic surfaces, minimum Sa2.7, 75-micron profile.

The material is proven to withstand temperatures up to 130°C in continuous immersion in water, steam and oil (dependent on operating environment).

The product is applied a two-coat system, 1<sup>st</sup> coat at a target WFT of 600 microns and a 2<sup>nd</sup> coat at a target WFT of 300 microns.

Below we have put together test data which has been collated over the past 12 months. All testing was carried out at the UPS laboratories and should be used as a guide only. For individual application requirements please refer to UPS on sales@uniquepolymersystems.com | +44(0) 1531 636300.



### WATER TESTING

<b>Water Testing at 50°C</b>	No change after 10 months
<b>Water Testing at 90°C</b>	No change after 10 months
<b>Water Testing at 110°C</b>	No change after 10 months
<b>Water Testing at 130°C</b>	No change after 10 months

### SOLVENT TESTING

<b>Solvent Testing at 25°C</b>	
<b>Ethylene Glycol</b>	No change after 10 months
<b>Ethyl Acetate</b>	No change after 10 months
<b>Methylene Chloride</b>	No change after 10 months
<b>Toluene</b>	No change after 10 months
<b>Methyl Ethyl Ketone</b>	No change after 10 months
<b>Acetone</b>	No change after 10 months
<b>Solvent Testing at 40°C</b>	
<b>Methyl Ethyl Ketone</b>	No change after 10 months
<b>Solvent Testing at 75°C</b>	
<b>Toluene</b>	No change after 10 months
<b>Solvent Testing at 90°C</b>	
<b>Ethylene Glycol</b>	No change after 10 months

### HYDROCARBON TESTING

<b>Hydrocarbon Testing at 50°C</b>	
<b>Crude Oil</b>	No change after 10 months
<b>Natural Gas</b>	No change after 10 months
<b>Hydrocarbon Testing at 110°C</b>	
<b>Crude Oil</b>	No change after 10 months
<b>Natural Gas</b>	No change after 10 months

### ALKALI TESTING

<b>Alkali Testing at 25°C</b>	
<b>Sodium Hydroxide 40%</b>	No change after 10 months
<b>Sodium Hydroxide 20%</b>	No change after 10 months
<b>Ammonia Solution 25%</b>	No change after 10 months
<b>Alkali Testing at 90°C</b>	
<b>Sodium Hydroxide 15%</b>	No change after 10 months

### AMINE TESTING

<b>Amine Testing at 25°C</b>	
<b>Ethanol Amine</b>	No change after 10 months
<b>Diethanol Amine</b>	No change after 10 months
<b>Triethanol Amine</b>	No change after 10 months
<b>Methyl Diethanol Amine</b>	No change after 10 months
<b>Amine Testing at 90°C</b>	
<b>Ethanol Amine</b>	No change after 10 months
<b>Diethanol Amine</b>	No change after 10 months
<b>Triethanol Amine</b>	No change after 10 months
<b>Methyl Diethanol Amine</b>	No change after 10 months

#### Product Applications

UPS 225 HT High Temperature Ceramic can be used to rebuild damaged or worn surfaces on equipment such as;

- Process vessels
- Chemical storage tanks
- Internal pipe surfaces
- Pump & process systems
- Tube sheets, end covers & water boxes
- Separators, Distillers & Filters

#### Global Availability

UPS 225 HT High Temperature Ceramic 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

#### Official Approvals



**BUREAU  
VERITAS**

Certificate No.  
58535/A0 BV

USDA complaint for incidental food contact