

# TECHNICAL DATA SHEET

## UPS CERAMICBOND EPOXY PUTTY



### UNIQUE POLYMER SYSTEMS

INNOVATE | REBUILD | ENHANCE

The **UPS CERAMICBOND EPOXY PUTTY** is a versatile solution for repair, maintenance, and manufacturing needs. This ceramic-filled putty is harder wearing and stronger than other putties, with a work time of up to two hours, allowing ample time for mixing, shaping, forming, and applying before curing begins. Once cured, it can be tapped, drilled, screwed, sawed, machined, ground, filed, or painted.

Suitable for both interior and exterior use, the **UPS CERAMICBOND EPOXY PUTTY** adheres to metal, brick, concrete, wood, masonry, porcelain, ceramic, most plastics, and other materials. It can cure on wet surfaces and underwater, and is resistant to chemicals, hydrocarbons, and extreme temperatures. The putty contains no solvents or VOCs, is non-flammable, releases no noxious fumes, and will not shrink or pull away during curing. The unused portion stays fresh for future use when stored in its original packaging.

### Product Information

#### General Repair Applications

- Repairing damage and filling gaps in concrete, brick, and metals
- Protecting parts against corrosion and chemical attack
- Leveling unstable machinery, sinks, and basins
- Sealing cable glands and joints, and insulating electrical components
- Performing underwater repairs on joints and tiles
- Making wet surface repairs on boats and other vessels
- Providing high-strength bonding between materials

#### Pipe Repair Applications

- Sealing large holes and cracks in pipework
- Repairing surface damage to enhance pipeline integrity
- Encapsulating leaking joints
- Acting as a sacrificial layer in chemically aggressive environments
- Repairing cast iron gutters, downpipes, and railings

#### Advantages

- Stick format eliminates the need for measuring and mixing separate components
- Two-hour cure time allows for extended working time with the putty
- Smooth finish with excellent adhesion
- Can be machined and worked without cracking or tearing
- Bonds to metal, wood, brick, most plastics, and many other materials
- Available in white, black, or grey

#### Directors for Use & Packaging

The **UPS CERAMICBOND EPOXY PUTTY** is supplied as a convenient 200g stick, pre-formatted with equal parts of Base and Activator. To use, cut the required amount of putty from the stick and knead by hand until the color is uniform. While the

putty is still soft, apply it to the area needing repair. For bulk quantities over 10kg, please contact Unique Polymer Systems.

### Technical Data & Performance

#### Drying & Cure Times

*At 20°C (68°F) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated.*

*These times will be extended at lower temperatures and reduced at high temperatures:*

|                         |                         |
|-------------------------|-------------------------|
| <b>Useable Life</b>     | 90 – 120 minutes @ 20°C |
| <b>Cure Time (Firm)</b> | 4 hours @ 20°C          |
| <b>Cure Time (Hard)</b> | 10 hours @ 20°C         |
| <b>Full Cure</b>        | 24 hours @ 20°C         |

#### Available Colours

Grey, White, Black

#### Pack Sizes

200GM Stick, 20KG Tub, 50KG Tub

#### Shelf Life

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

#### Mechanical Properties

|                                   |   |
|-----------------------------------|---|
| <b>Specific Gravity</b>           | 2.00  |
| <b>Shore D Hardness</b>           | 90  |
| <b>Tensile Strength</b>           | 24 MPa  |
| <b>Compressive Strength</b>       | 80 MPa  |
| <b>Lap Shear Strength (Steel)</b> | 3.5 MPa   |
| <b>Dielectric Strength</b>        | 8kV/mm = 25 kV/mil  |
| <b>Application Temperature</b>    | +5°C to +35°C<br>Cure speed will be quicker above 35°C and slower below 5°C |

#### Max Service Temperature

|                          |                       |
|--------------------------|-----------------------|
| <b>Continuous (°C)</b>   | -20°C to +130°C       |
| <b>Intermittent (°C)</b> | -20°C to +300°C (Dry) |

#### Global Availability

**UPS CERAMICBOND EPOXY PUTTY STICK** 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.

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