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# U-66-2

## Two Part Brush-On Epoxy

**DESCRIPTION**

U-66-2 is at two part epoxy designed for use as an electrical general purpose brush-on compound ideal for general maintenance. U-66-2 is available in pre-measured kits of 1 pound, 2 pound, 100 grams and 50 grams. U-66-2 is also available in larger pail and drum kits. Material brushes on with ease and has a fast room temperature cure in thin films. The cured material shows excellent resistance to a variety of chemicals including; water, alkai, hydrocarbons, glycol ethers, ketones, detergents, and chlorinated hydrocarbon solvents. When mixed, U-66-2 will require no baking to achieve the ultimate curing properties. U-66-2 will cure tack free in 4 – 8 hours. U-66-2 will completely cure after baking for 5 minutes at 100° C.
U-66-2 is available in 50 gram burst packs, 100 gram burst packs, 1 # kits, 2# kits, 1 gallon pails, 5 gallon pails, and 55 gallon drums.

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user.

**BENEFITS**

| | |
|---|---|
| Available in Pre-measured kits | Excellent Coverage |
| Class H temperature use | Excellent Chemical Resistance |

| **TYPICAL PROPERTIES (cured 7 Days at 75 °F)** | TEST METHOD | VALUE |
|---|---|---|
| Pot Life [250 Gram Mass at 75 °F] (minutes): | ASTM D2471 | 25 |
| Shore D Hardness: | ASTM D2240 | 80 |
| Lap Shear [CRS to CRS] (psi): | | |
| 23 °C: | ASTM D1002 | 1,300 |
| 150 °C: | ASTM D1002 | 100 |
| Tensile Strength (psi): | ASTM D638 | 6,000 |
| Tensile Modulus (psi): | | 363,000 |
| Elongation (%): | | 4.0 |
| Flexural Strength (psi): | ASTM D790 | 15,000 |
| Flexural Modulus (psi): | | 400,000 |
| Thermal Conductivity (W/mK): | | .344 |
| Tg (° C): | ASTM D3418 | 105 |
| Weight Loss [28 days @ 188 °C] (%): | | 1.58 |
| Water Absorption [28 days at 25 °C] (%): | | 0.64 |
| Dielectric Breakdown Strength [25°C, 1/8 in.] (V/mil) | ASTM D149 | 429 |
| Dissipation Factor: | | |
| 48 Hour Water Immersion: | | $9.87 \times 10^{-3}$ |
| 48 Hour 50% Relative Humidity: | | $9.57 \times 10^{-3}$ |
| Dielectric Constant: | | |
| 48 Hour Water Immersion: | | 1.56 |
| 48 Hour 50% Relative Humidity: | | 1.61 |
| Volume Resistivity (Ω cm): | | |
| 48 Hour Water Immersion: | | $9.63 \times 10^{15}$ |
| 48 Hour 50% Relative Humidity: | | $9.49 \times 10^{15}$ |



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| | | |
|---|---|---|
| Part A: | | |
| Specific Gravity (g/cc): | ASTM D1475 | 1.38 |
| Viscosity (cps): | ASTM D2393 | Thixotropic Paste |
| Color: | | Brick Red |
| Part B: | | |
| Specific Gravity (g/cc): | ASTM D1475 | 1.02 |
| Viscosity (cps): | ASTM D2393 | 1,200 |
| Color: | | Light Straw |
| Mixed Product: | | |
| Specific Gravity (g/cc): | ASTM D1475 | 1.33 |
| Viscosity (cps) (20 rpm): | ASTM D2393 | 33,000 |
| Color: | | Brick Red |
| Mix Ratio: | | |
| By Weight: | | 100:17 |
| Shelf Life (months): | | 12 |

**APPLICATION PROCEDURES**

Carefully weigh out appropriate amounts of resin and hardener into a clean mixing container and thoroughly mix until all streaks and striations are gone. Scrape the sides and bottom frequently to ensure complete mixing.

*CAUTION*: Unmixed compound from the sides or bottom of the container can cause soft spots or uncured areas in the completed piece. To prevent this, transfer the entire mixed contents to a second clean container and remix for a short time before using.

**PRECAUTIONS**

For industrial use only. Keep away from children.

Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using.

Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

**RESIN AND HARDENER WARNING STATEMENT**

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.



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