

Strain Gage Adhesive



OTHER ACCESSORIES USED IN AN M-BOND AE-15 INSTALLATION:

- CSM Degreaser or GC-6 Isopropyl Alcohol
- Silicon-Carbide Paper
- M-Prep Conditioner A
- M-Prep Neutralizer 5A
- GSP-1 Gauze Sponges
- CSP-1 Cotton Applicators
- PCT-2M Gage Installation Tape
- HSC Spring Clamp
- GT-14 Pressure Pads and Backup Plates



RoHS
COMPLIANT

DESCRIPTION

Two-component, 100%-solids epoxy system for general-purpose stress analysis. Transparent, medium viscosity. Cure time as low as six hours at +125°F [+50°C]. Recommended for more critical applications, including transducers. It has a longer pot life than M-Bond AE-10 which allows more time for multiple gage installations.

Elevated-temperature postcure is recommended for maximum stability, and/or tests above room temperature. Highly resistant to moisture and most chemicals, particularly when postcured. For maximum elongation, bonding surface must be roughened. Cryogenic applications require very thin gluelines.

CHARACTERISTICS

Operating Temperature Range:

Long Term: -452° to +200°F [-269° to +95°C].

Transducers: to +175°F [+80°C].

Elongation Capabilities:

2% at -320°F [-195°C];

10% to 15% at +75°F [+24°C];

15% at +200°F [+95°C].

Shelf Life:

Minimum 12 months at +75°F [+24°C]; or 18 months at +40°F [+5°C]. If crystals form in resin jar, heat to +120°F [+50°C] for 30 minutes. Cool before mixing.

Pot Life:

1-1/2 hours at +75°F [+24°C].

Clamping Pressure:

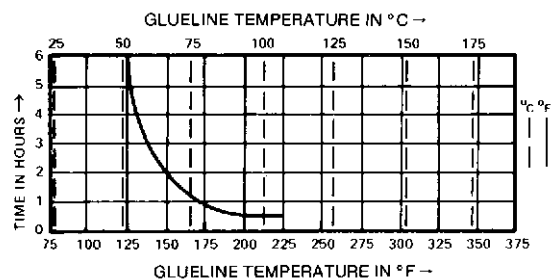
5 to 20psi [35 to 140kN/m²].

Cure Requirements:

Recommended PostCure: 2 hours at 25°F [15°C] above maximum operating temperature.

Optimum Performance Transducer Postcure:

1 hour at +200°F [+95°C].



PACKAGING OPTIONS

Kit:

- 6 mixing jars [10g ea] Resin
- 1 bottle [15ml] Curing Agent 15
- 6 calibrated pipettes
- 6 stirring rods

Bulk:

- 200g Resin
- 25g Curing Agent 15
- 3 calibrated pipettes

References:

Instruction Bulletin B-137, "Strain Gage Applications with M-Bond AE-10, AE-15, and GA-2 Adhesive Systems", included in each kit.

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