

Strain Gage Adhesive



OTHER ACCESSORIES USED IN AN M-BOND 200 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-2A Cellophane Tape

DESCRIPTION

For routine experimental stress analysis applications under temperate environmental conditions, M-Bond 200 adhesive is ordinarily the best choice. This adhesive is very easy to handle, and cures almost instantly to produce an essentially creep-free, fatigue-resistant bond, with elongation capability of five percent or more.

M-Bond 200 is a cyanoacrylate that has been pretested and certified for use in bonding strain gages. It is an excellent general-purpose adhesive for laboratory and short-term field applications. The procedure for making a strain gage installation with M-Bond 200 is illustrated and described in detail in Instruction Bulletin B-127 included in each kit of adhesive.

The user should note that the performance of the adhesive can be degraded by the effects of time, humidity conditions, elevated temperature, and moisture absorption. Because of the latter effect, strain gage installations should always be covered with a suitable protective coating. When necessitated by more rigorous test requirements and/or environmental conditions, consideration should be given to one of the M-Bond epoxy adhesives, using the “Recommended Adhesives/Strain Gage Series” chart.

CHARACTERISTICS

Cure Requirements:

One-minute thumb pressure, followed by a minimum two-minute delay before tape removal. Bond strength increases rapidly during first five minutes. Cure time must be extended under conditions of low temperature (<70°F [<21°C]) or low humidity (<40% RH).

Operating Temperature Range:

Short Term: -300° to +200°F [-185° to +95°C].

Long Term: -25° to +150°F [-32° to +65°C].

Elongation Capabilities:

>5% at +75°F [+24°C], 3% at +75°F [+24°C] when used with CEA or EA/Option E strain gages.

Shelf Life:

3 months at +75°F [+24°C] after opening, with cap replaced immediately after each use. Shelf life refers to the duration of time, beginning on date of shipment, over which properly stored adhesive should be expected to meet published specifications.

Note: To ensure a proper seal, wipe bottle spout clean and dry before replacing cap.

May be stored unopened up to 3 months at +75°F [+24°C] or 6 months at +40°F [+5°C].

Note: Condensation rapidly degrades adhesive performance and shelf life; after refrigeration, allow adhesive to reach room-temperature before opening. Refrigeration after opening is not recommended.

PACKAGING OPTIONS

Kit:

1 bottle [1 oz/28 g] Adhesive
1 brush-cap bottle [30 ml] Catalyst
polyethylene dispenser cap

Bulk:

Adhesive — 16 bottles [1 oz/28 g each]
Catalyst — 12 brush-cap bottles [30 ml each]