Strain Gage Installations with M-Bond A-12 Adhesive

Measurements in excess of 20% strain (200 000 microstrain) are possible following the recommendations listed below.

1) Blend the A-12 components on a smooth surface such as a glass plate. Dispense 2 lengths of Part A (Brown) and 3 lengths of Part B (Gray), each length of equal size and at least 1-inch (25mm) long.

2) Blend with a spatula until the mixture is of a uniform color. Any large particles of filler material remaining should be removed. Large filler particles under the gage could result in premature gage failure. If large mixes of A-12 are to be made up, Part B may be ball milled to reduce grit size.

3) Cure for 2 hours at a glue line temperature of +165°F (+74°C) or 2 weeks at +75°F (+24°C).

4) Clamping pressure should be 5 to 20 psi (35 to 140 kN/m^2).

Refer to Vishay Micro-Measurements Instruction Bulletin B-129 and Application Note TT-605 for surface preparation and gage handling procedures.

Refer to the MSDS for health and safety information.