

TECHNICAL DATA SHEET

BARCO BOND SYSTEM "G" INSTANT ADHESIVES

MB-165 (1 Minute -- Red tipped bottle); **MB-175** (3 Minute -- Yellow tipped bottle);
MB-185 (5 Minute -- Blue tipped bottle); **MB-195** (12 Minute -- Black tipped bottle)

DESCRIPTION: These materials are rapid curing adhesives and electrical insulating materials for quick permanent and semi-permanent repair without heat, pressure or special equipment.

SUGGESTED USES:

- **ELECTRICAL INSULATION:** Good dielectric material for repair and re-insulating electrical windings and their terminations.
- **BONDING:** Attaching nameplates, terminal boards and surface mount devices.
- **PATCHING:** "Instant" repair to punctured drums or tanks. Can also patch pumps, valves or pipes.
- **FILLING & SEALING:** Use on most substrates, except concrete, for caulking, filling pores, defects, holes or dents. May be painted after curing.

SURFACE PREPARATION: Thoroughly clean and degrease all surfaces. Wire brush, sandblast, sandpaper and cleaning solvent will assist on non porous surfaces.

MIXING INSTRUCTIONS: Dispense desired amount of Part A (green tube) on a suitable mixing surface (i.e. clean piece of cardboard). Dispense Part B (plastic bottle) of the amount equal to ½ the amount of Part A. Mix rapidly with spatula supplied for 15-20 seconds and quickly apply to desired surface.

SAFETY: This adhesive is based upon minimum toxicity materials. Nevertheless, avoid contact with skin and use adequate ventilation. If skin contact is made, wash immediately with soap and water.

PHYSICAL PROPERTIES: (Not to be used as specifications) Cured BARCO BOND system "G" adhesives exhibit good tensile, impact and dielectric strength. They resist weather, water, oil, gasoline, and many solvents and chemicals and can be drilled, sanded and/or machined.

	<u>Cured</u>	<u>MB-165</u>	<u>MB-175</u>	<u>MB-185</u>	<u>MB-195</u>
Pot Life @ 70°F	-	1 minute	3 minutes	5 minutes	12 minutes
Cure Time @ 70°F	-	1 hour	2 hours	4 hours	9 hours
Tensile Elongation (1)	3%				
Tensile Strength (1)	7000 psi				

BOND STRENGTH: Tensile shear vs. time for treated⁽²⁾ substrates at 23°C, PSI.

	<u>Aluminum</u>	<u>Copper</u>	<u>Steel</u>	<u>Epoxy(3)</u>	<u>Acrylic(4)</u>
1 Week	2690	1090	2180	280	340
2 Months	1750	800	1600	300	300
1 Year	1810	680	1360	340	380

Notes: (1) Measured 1-1/2 hours after initial cure @ 175F (80C); (2) The aluminum and copper were chemically etched, the steel was sandblasted and vapor degreased, the cast epoxy and acrylic were abraded with emery cloth and degreased; (3) Liquid Epoxy/TETA; (4) Plexiglas.