

MS-905 5 Minute Set Epoxy Adhesive

Description:

MS-905 is a versatile and easy to use adhesive. It can be used to bond or repair most materials such as wood, metal, glass, ceramic, plastics, and rubbers. This epoxy system hardens in 5 minutes with high bond strength and chemical resistance.

Advantages:

- Excellent adhesion to a wide variety of substrates such as aluminum, copper, steel, brass, concrete, FRP/SMC, wood, glass, plastic, ceramics, painted metals, graphite, polyurethane, galvanized metal, rigid plastics
- High bond strength develops in 2-3 hours
- Chemical resistant

Physical Properties:

Mix Viscosity @77°F/25°C	15,000-20,000cps
Mixed Color:	Clear
Specific Gravity:	1.1
Mix Ratio:	1:1 (by vol. or wt.)
Get time:	5 minutes
Adhesive Set-up Time:	2-3 hours

Cured Properties:

Shore Hardness D (ASTM D2240)	78-80
Shear Strength (N/mm ²)	14-18
Peel Strength (N/mm)	3-5
Thermal Conductivity (W/mK)	0.1
Coefficient of Thermal Expansion (1/k)	60-120 x 10E ⁻⁶
Dielectric Strength (kv/mm)	50-90
Volume Resistivity (OHM/cm)	3-5 x 10E ¹²
Service Temperature	-40°F/-40°C to 250°F/120 °C

Lap Shear Strength Data:

(ASTM D 1002)

CRS/CRS	2350 psi-Cohesive Failure
Aluminum/Aluminum	1950 psi-Cohesive Failure
Copper/Copper	1850 psi-Cohesive Failure
FRP/FRP	900 psi-Fiber Tear
ABS/ABS	850 psi-Substrate Failure

Chemical Resistance Data:

(cured for 7 days @ 25°C, kept immersed in the media and tested for lap shear strength, ASTM D-1002)

Gasoline	2550 psi
Acetic Acid (10%)	2180 psi
Xylene	2165 psi
Lubricating oil-HD 30	2400 psi
Paraffin	2275 psi
Water @ 74°F/23°C	2355 psi
Water @ 194°F/90°C	2325 psi

Surface Preparation:

All substrates must be clean, dry and free from surface contamination. Surfaces may be sanded to get optimum bond strength.

Safety Data Sheet (SDS) is available upon request.

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