

DanBond E11

General Purpose Epoxy Adhesive

DanBond E11 is a multipurpose 2 component epoxy adhesive specifically formulated to have high strength and toughness. The system is suitable for bonding a wide variety of materials including metals, glass, ceramics, rubber and some plastics.

FEATURES:

- Tough and resilient
- Room temperature cure
- Excellent Adhesion
- Good resistance to dynamic loading

APPLICATIONS:

- Ideal for bonding all types of Fiberglass, PBT, Epoxy, Wood, RIM, Nylon, FRP, Polyesters, Styrene, Stainless Steel etc.
- Ideal for Automotive Components, Sporting goods, Electronics Enclosure Parts, Fiberglass Tanks & Fittings, Appliances, Construction, Furniture, Marine assemblies, Plastic Fabrications, Sign & Display, etc.

SURFACE PREPERATION

All surfaces must be clean, dry, dust and grease free before application. Use a suitable solvent (acetone or isopropanol) for the degreasing of most surfaces.

Best result will be achieved with surfaces that have been lightly abraded immediately prior to bonding.

TIMES TO MINIMUM SHEAR STRENGTH

Temp					0°C		15°C	23°C	40°C	60 °C
Time to reach LSS > 1MPa	(hours)		(mins)	-	24	-	12	7	2	30
Cure time to LSS > 10MPa	(hours)	(hours)	(mins)	-	36	-	18	9	3	45

LAP JOINT SHEAR STRENGTHS:

Stainless Steel	23 MPa
Mild steel	25 MPa
Mild steel	32 MPa
Aluminium	26 MPa
SMC	7 MPa
ABS	5 MPa
Wood BS1204	6.1 MPa*
Glass 6.3mm plate	4.6 MPa*

*(test piece failure)

PROPERTIES OF UN CURED ADHESIVE

Liquid	Adhesive	Activator
Appearance	Clear	Tan
Density (g/cm ³)	1.15	0.95
Viscosity (Pas)	30-50	20-35
Mix Ratio (by volume)	100	100

TYPICAL CURING PROPERTIES

PROPERTY	VALUE
Working Time	100 minutes
MIXED DENSITY (G/CM ³)	1.10

Directions for Use

Cartridges:

- 1) Insert the cartridge into the application gun
- 2) Remove the cartridge end cap and dispense a small amount of material to balance the cartridge.
- 3) Attach the correct static mixer to the end of the cartridge and begin dispensing the material.
- 4) Apply material to one of the substrates and then join the parts. Parts must be joined within the working time of the adhesive

5) EXCESS ADHESIVE CAN BE WIPED AWAY WITH ORGANIC SOLVENT. TYPICAL CURING PROPERTIES

PACKAGINGS available in 50 ml and 200 ml Cartridges.

HANDLING PRECAUTIONS

Please refer to the relevant SDS (Safety Data Sheet) regarding the safe handling of this material.

Note: *All materials, whether innocuous or not, should be handled in accordance with the principles of good industrial hygiene.*

Further technical support or information may be obtained from

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