

LEADERS IN BONDING TECHNOLOGIES

BOND-AD-04

GENERAL PURPOSE EPOXY ADHESIVE

General purpose Epoxy resin base Adhesive which gives a joint of unmatched strength. Both are available in fluid easy to mix consistency ready for immediate application. A versatile adhesive, suitable for **Bonding, Pouring, Sealing, Plumbing, Potting, Encapsulating, Tooling, Coating**, etc. for industrial and household applications such as **Textile, Foundries, Electrical, electronics, Construction, Engineering, Auto and Marine**. It can bonding anything to anything ranging from **wood, rubber, glass, china, fiber, leather, paper, stone, ceramics, metal (ferrous & non ferrous), ivory, granite, asbestos, cardboard, porcelain, and most plastic, except some plastics and Teflon**. The success of the Epoxy Adhesive is due to their low shrinkage, high bonding strength, good light stability, good mechanic ability resistance to heat , humidity and chemicals.

MIXING RATIO AND POT LIFE:-

Part-A and Part-B should be mixed in the ratio of 10:08 by weight or (1:1 by volume) when the lower proportion of Part-B is used, the chemicals resistance is higher but the bond slightly lower. The higher proportion of Part-B corresponds to a mixing ratio 1:1 by volume and gives maximum bond strength.

The two component must be mixed before use. The pot life depends on room temperature, temperature of the mix. The higher the temp. and larger the mix the shorter will be its pot life. Good compromise can be arrived at by adjusting the temperature and amount of the mix. So that the pot life is enough for the application. Generally 50 grams each of the above when mixed, gives pot life of 30 to 60 minutes approximately at room temperature.

Quantity of the mix should be as low as possible to increase the usable life of the mix system. Mixed quantity of above 100 grams will such shorter pot life.

ELECTRICAL & ELECTRONICS:-

Fixing magnets to metal pieces in way-hour meters. Fixing of aluminum labels on machines, fans and other instruments. Sealing of traction motor armatures, ,asking of PCB's, fixing Diaphragms and magnets to base plate of speakers, assembly of radios transistor and T.V. Insulation, Air conditioning and fridge repairs.

AUTOMOBILE:-

For bonding brake lining to shoes, fixing headlight and glass ti rim and fixing for horn and electromagnetic to fly wheels, fixing of oil seals, etc.

ENGINEERING:-

Fixing loose screws, bolts, textile reeds and ring of rotary screen. Packing seal of geysers and boilers joining wooden or metal pattern parts. Joining to broken utensils, brass parts to Bakelite, joining wooden and metal structure parts , etc.

AS ADHESIVES for Aircraft honeycomb structures, for paint brush bristles, and for concrete topping compounds.

AS BODY SOLDERS AND CAUKING COMPOUNDS for repairs of plastics and metal articles of machines. Toys automobiles, boats.

AS CASTING COMPOUNDS for the fabrication of short run and prototype moulds, stamping dies, patterns and tooling.

AS SEALENTS, potting and Encapsulating compounds in building and high way construction and also air force run way Impregnating resins for Electronics and Electrical equipment.

AS LAMINAING COMOUNDS for air frame and missile application for filament wound structures and for tooling, fixtures, it forms a strong bond it is unaffected by humidity, moisture, acids, lye, and temperature up to 150 oC.

SURFACE PREPARATION:-

Clean the surface to be bonded, free of dirt, oil, grease, rust, moisture, loose deposits, wax, paints and damaged materials. The roughen the surface by sanding, grinding and emerging. Use clean cloth soaked with a suitable solvent for better results.

SPECIFICATIONS

PROPERTIES	Part-A	Part-B	Mixture
Color	St hazy liquid	Yellow to brown liquid	Yellow to brown liquid
Total solid %	99 +-1%	99 +-1%	99 +-1%
Density	1.089	0.89	0.989 Kg/Ltr
Mixing ratio	1 pbv	1 pbv	
Freeze Thaw stability	Satisfy	Satisfy	Satisfy
Service Temp.	-20-80oC	-20-80oC	-20-80oC
Pot life of mix at R.T.			60-90 minutes
Tack free time at R. T.			2-3 hours
Cure schedule			24 hrs at 25 oC 2 hrs at 60 oC 30 minutes at 120oC
Hard Cured Time at R.T.			7 days
DFT per coat			90-120 micron
Coverage per coat / Kg for coatings			30-40 Sq. mtr with 25 microns thickness on smooth surface
% Elongation			5%
Heat resistance			No effect up to 150 oC
Water absorption			0.50 % maximum
Shear strength metal to metal			More than 250 kgs / cm ²
Compressive strength on block of adhesive			More than 3000 kgs / cm ²
Cleavage strength MS to MS			360-400 kg / 25 mm
CHEMICAL RESISTANCE			
WATER			No effect
25 % sulphuric Acid			No effect
50 % sulphuric Acid			No effect
20 % NaOH			No effect
Con. HCL			No effect
Shelf Life	12 months	12 months	--
Packing's in Tin & carboys	1, 5, 10 & 30 Kg	0.8, 4, 8 & 24 Kg	Part-A & B = 1.08, 9, 18 & 54 kg

Special Note :- Can add For putty (filler like Talc, Barytes, calcium carbonate, silica flour, etc) and for Mortar can add (Filler Quartz sand, glass grains, etc) as per your requirements.

The information contain here in is reliable and accurate the best of our knowledge. Technical services will provided for guidance when required. However conditions of uses and methods of application are beyond our control, no warranty is expressed or implied.

ALSO AVAILABLE CONSTRUCTION CHEMICALS FOR REPAIRS, REHABILITATION OF BUILDING, BRIDGE, DAM, CANAL, TUNNEL & MARINE STRUCTURES, ETC.

RESINS	PAINTS	GROUTS	CONCRETE ADMIXTURE	FLOORINGS	WATERPROOFING	ADHESIVE	LACQUERS
EPOXY	EPOXY	CEMENT-POLYMER	MICRO CONCRETE	EPOXY	ACRYLIC COPOLYMER	EPOXY	SOLVENTED
POLYURATHANE	POLYURATHANE	EPOXY	PLASTICIZERS	POLYURATHANE	POLYMER POWDER	ACRYLICS	WATER BASE
ACRYLICS	ANTI CORROSIVE	EXPANSIVE GROUT		NON METTALIC CEMENT	WATERREPPALLENT		NC-ACRYLICS

TECHNICAL SERVICES & Technical assistance

Information is available by calling the Mr Bond Technical Service at:

Email:- Costomercare@mrbond.org

MR. BOND POLYCHEM

111, Shivam Complex, Science city road, Sola, Ahmedabad-60 (Guj) India
mail: jbond009@yahoo.co.in / info@mrbond.co.in / contact@mrbond.co.in
web: www.mrbond.co.in / www.mrbond.org
M-0 94094 57994 / 093279 24007 Ph: 079-2777 4269