



DESCRIPTION

TECHNO BOND 8003 is a two part modified epoxy polyamide system with very low viscosity properties, medium exothermic reaction and maximum room temperature curing cycle.

TECHNO BOND 8003 can be used for permanent bonding of most rigid surfaces including wood, metal, glass, ceramic, concrete, polyurethane foam panels, F.R.P. composites and some thermoplastics. The bond will result in an insoluble, impact resistant and permanent transparent adhesion. Ideal for hybrid assembly of different substrates.

CHARACTERISTICS

- Waterproof
- Easy mixing ratio
- Resistant to temperature changes
- Excellent wetting properties
- Easy to apply

APPLICATIONS

Substrate receiving adhesive must be sound, hard, dry and free from all contaminants such as grease, oil, dust, etc.

Mix equal part of "A" and "B" by volume until colour is uniform.

A small variance in mixing ratio can modify physical properties.

The uncured components can be easily cleaned by using **Solvent 201**.

Please consult **POLYMERES TECHNOLOGIES** for more details based on your application.

TYPICAL PROPERTIES (at 22°C)

		PART A	PART B	MIXED
Viscosity	Brookfield (cps)	1 500	3 000	2 000 - 5000
Consistency		Liquid	Liquid	Liquid
Density	g/cm ³	1.12	0.97	1.05
Mixing Ratio	1. By weight	1	1	1/1
	2. By volume	100	86	100/86
Color		Pale Yellow	Amber	Amber
Pot life	200 cc mass	1 h 30 minutes at 22°C		
Gel Time	50 mils (6"X6" metal)	3 h 30 minutes at 22°C		
	10 mils (Form 9A contrasting paper)	6 hours at 22°C		
Peak Exothermic Temperature max.	ASTM D 2471-71	100°C		
Full cure at 25°C		7 days ¹		

¹ After material has solidified the curing process can be accelerated at 52°C (125°F).



PHYSICAL PROPERTIES (solid state) 7 days after cure at 22°C

TEST	METHOD	RESULTS	
Hardness	ASTM D 2240	Shore D	79
Tensile strength	ASTM D 638	MPa ¹	40.5
Elongation at break (%)	ASTM D 638 TYPE IV	%	16.9
Flexural Strength	ASTM D 790	MPa	33.1
Compressive Strength	ASTM D 695	MPa	53.2
Linear Shrinkage	ASTM D 2566	cm/cm	0.0010
Water Absorption 24 hours	ASTM D 570		0.79
Shear Strength Properties (MPa)	ASTM D 1002		
1. Aluminium 2. Stainless Steel			14.8 14.5

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Normal health and safety precautions should be observed when handling these products :
 - Ensure good ventilation
 - Wear gloves, safety glasses and waterproof clothes.
- Shelf life of product in original closed containers is **one (1) year**.
- **SHELF LIFE:** The shelf life on **POLYMÈRES** products begins from the date of invoice for that product shipment. **POLYMÈRE's** shelf life only pertains to containers that are unopened and in their original condition.
- Once the container is opened **POLYMÈRES** has no control or responsibility for the shelf life.
- It is recommended to follow Provincial and Federal safety regulations. In case of eye contact, rinse well with water, in case of skin contact, rinse with soap and water. Keep away from children.

GUARANTEE

Seller makes no warranty of any kind, express or implied, as to the merchantability, fitness for any particular purpose, or any other matter with respect to the product **TECHNO BOND 8003**. Since conditions of use are beyond seller's control, buyer assumes all risk of use of this product. Under no circumstances will seller be liable for consequential or incidental damages arising out of the use of this product. Seller's sole obligation shall be to replace the product if found to be defective. It is the user's responsibility to determine the suitability for use of this product under the conditions present at the time of application. M.S.D.S. available upon request.

¹ 1 MPa = 145 lb