



**POLYMÈRES**  
technologies

# TECHNO BOND 8104

Epoxy  
adhesive

## DESCRIPTION

**TECHNO BOND 8104 is a two part modified epoxy polyamide compound with slight thixotropy, medium exothermic reaction and excellent curing capability at room temperature.**

**TECHNO BOND 8104 can be used for permanent bonding of most rigid surfaces including wood, metal, glass, ceramic, concrete, F.R.P. composites and some thermoplastics. The bond will result in an insoluble, impact resistant and permanent transparent adhesion.**

## CHARACTERISTICS

- Waterproof
- Easy mixing ratio
- Resistant to bad weather
- 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 variance in mixing ratio can modify physical properties.

The uncured components can be easily cleaned with solvent **901**.

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

## TYPICAL PROPERTIES (at 22°C)

		<b>PART A</b>	<b>PART B</b>	<b>MIXED</b>
Viscosity	Brookfield (cps)	4,000	4,500	7,000-9,000
Consistency		Liquid	Liquid	Liquid
Density	g/cm <sup>3</sup>	1.15	0.97	1.06
Mixing Ratio	1. By weight	100	85	100/85
	2. By volume	1	1	1/1
Color		Off-white	Clear amber	Ambre
Pot life	200cc mass	1 h 30 minutes at 22°C		
Gel Time	ASTM D 2471 10 mils	6 hours at 22°C		
Peak exothermic temperature	°C	100 °C		
Full cure	mass of 3.5 kg	7 days <sup>1</sup> at 22°C		

<sup>1</sup> 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	82
Tensile strength in thin film	ASTM D 2370	Mpa <sup>1</sup>	25
Elongation in thin film	ASTM D 2370	%	13
Tensile strength	ASTM D 638 TYPE IV	Mpa	50
Elongation	ASTM D 638 TYPE IV	%	10
Flexural Strength	ASTM D 790	Mpa	28 <sup>2</sup>
Compressive Strength	ASTM D 695	Mpa	66
Linear Shrinkage	ASTM D 2566	cm/cm	0.0031
Water Absorption 48 hours	ASTM D 570	%	0.78
Tensile lap shear strength	ASTM D 1002	Mpa	12.5 12.3

**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.
- Do not mix more material than possible to apply within the recommended pot life.
- Shelf live of product in closed containers is one year for part "A" and six (6) months for part "B".
- 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 8104**. 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.

<sup>1</sup> 1 MPa = 145 lb  
\* No failure at 5% strain in outer fibers.