



## DESCRIPTION

**TECHNO BOND 8111 is a very high solid and/or reactive content two component epoxy adhesive. The component mixture will form a very highly thixotropic paste with a medium exothermic reaction.**

**TECHNO BOND 8111 can be applied on horizontal or vertical surfaces up to 1/16 of an inch thick. It can also be used to bond most rigid substrates such as concrete, wood, metal, glass and some thermosetting plastic. Ideal to bond ceramic tiles and the assembly of honeycomb panels. Mix easily with mechanical equipment.**

## CHARACTERISTICS

- Easy to mix
- Impact resistant
- Easy to apply
- High bond strength
- Non-sagging
- Highly thixotropic
- Low shrinkage
- Good temperature resistance (155°C)

## APPLICATIONS

All surfaces must be sound, hard, dry and free from grease, oil, dust or other contaminants that can prevent proper adhesion.

Mix equal part of **A** and **B** by volume until color is uniform.

To ensure good results, make sure adhesive fills all gaps between substrates being bonded.

Uncured components can easily be cleaned by using **T-901 solvent**.

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>
Consistency		GEL	GEL	GEL
Solids by weight		99.5% minimum		
Mixing Ratio	1. By volume	1	1	1/1
	2. By weight	100	87	100/87
Induction time			None	
Pot life (200 cc mass)		30 minutes*		
Application method		Trowel, spatula		
Density	g/cm <sup>3</sup>	1.12-1.15	0.97-1.00	1.04-1.07
Solvent Cleaner		Solvent 901		
Color		Whitish	Amber	Neutral

\* Although material remains liquid for at least 45 minutes, pot life is 30 minutes, after which sag resistance is lost.



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

TEST	METHOD	RESULTS	
Full cure		days <sup>†</sup>	7
Sag resistance		inch	1/16 <sup>‡</sup>
Peak exothermic temperature	ASTM D 2471	°C	100 – 130
Hardness	ASTM D 2240	Shore D	75
Tensile strength	ASTM D 638	MPa <sup>§</sup>	23.6
Elongation at break	ASTM D 638	%	22.1
Flexural Strength	ASTM D 790	MPa	21.5
Compressive Strength	ASTM D 638	MPa	31.0
Linear Shrinkage	ASTM D 2566-79	cm/cm	0,0035
Water Absorption	ASTM D 570	MPa	24 hours
7 days			0.21
2 hours in boiling water			1.02
Shear strength properties			
1. Aluminium	ASTM D 1002	MPa	9.5
2. Stainless steel	ASTM D 1002	MPa	11.0
Weight loss at 100°C		7 days at 100°C	1.75%

**PRECAUTIONS**

- Consult Material Safety Data Sheet prior to use.
- Ensure proper ventilation.
- Shelf life of product in original closed containers is **one (1) year**.
- 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**

Having no control on the use and applications of this product, the manufacturer and/or distributor cannot guarantee the results achieved. The warranty is therefore limited to the replacement of a product whose user can demonstrate, in a way that is satisfactory to both manufacturer and distributor, that it is in fact defective. Before using this product, the user must ensure that it is appropriate for the chosen purpose. The user assumes all risks related to this use. The user must ensure that the product meets his or her needs by testing it at the short, medium, and long-term to validate the results in the intended operating conditions and following the prepared instructions. This limited warranty disclaims any liability for indirect, accidental, or special damages. Except for the warranty described above, the user expressly recognizes and accepts that, upon purchase of this product, the manufacturer and/or distributor disclaim any other responsibility and that any other warranties, express or implied, related to a warranty of merchantability and to an implicit warranty related to the quality of materials are expressly excluded.

<sup>†</sup> After material has solidified, full cure can be accelerated at 51.7°C or 125°F .

<sup>‡</sup>. A sagging of only 1/4" will occur at a thickness of 1/8"

<sup>§</sup> 1 MPa = 145 lb/po<sup>2</sup>