



**POLYMÈRES**  
technologies

# TECHNO POTTING 8080 M

## Résine empotage époxyde

### DESCRIPTION

**TECHNO POTTING 8080 M** is a 100% solid epoxy system with very low viscosity. This system provides excellent protection for various electrical and electronic components exposed to moisture, rain, thermal shocks, vibration, impact, among many others.

It is ideal for protecting capacitors, thermal sensors, probes, wiring, relays, transformers, and connectors. Its very low viscosity allows it to penetrate small gaps and fill tight spaces beneath circuit boards inside enclosures.

This system also complies with the European RoHS directive ("Restriction of the use of certain Hazardous Substances in electrical and electronic equipment"), meaning it restricts the use of certain hazardous substances in electrical and electronic equipment. This makes it a safe system for both users and the environment.

### CHARACTERISTICS

- Very low viscosity (self-leveling)
- Glossy finish
- High penetration capability
- Excellent impact resistance
- Easy mixing ratio
- Available in various colors
- Complies with RoHS directive

### APPLICATION INSTRUCTIONS

Store **TECHNO POTTING 8080 M** on a pallet (do not store directly on the floor) or a shelf at 22°C with a relative humidity below 60%. A cold environment will increase the viscosity of parts A and B, while a warmer environment will decrease it.

Before using **TECHNO POTTING 8080 M**, ensure that both parts A and B are individually mixed. Minimize air entrapment by stirring slowly for at least 5 to 10 minutes using a metal spatula at least 1" wide.

Mix **2 parts A** with **1 part B** (or **100 A / 43 B by weight**), ensuring a homogeneous mixture by carefully scraping the sides and bottom of the container.

Since the pot life of the system is 25 minutes at 22°C for a 200-gram mass, avoid mixing more material than can be applied within the pot life. Note that the pot life will shorten in warmer environments and lengthen in cooler environments. Handling time will reflect the ambient temperature.

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

For more information, contact **POLYMÈRES TECHNOLOGIES** at [support@polymerestechnologies.com](mailto:support@polymerestechnologies.com)

### TYPICAL PROPERTIES (at 22°C)

		PART A	PART B	MIXED
Viscosity	Brookfield (cps)	750	200	475
Consistency		Liquid	Liquid	Liquid
Density	g/cm <sup>3</sup>	1.135	1.01	1.075
Mixing Ratio	1. By volume	2	1	2/1
	2. By weight	100	43	100/43
Color		Colored	Clear	Colored
Pot life		25 minutes		
Gel time		30 minutes		
Max exothermic temperature	ASTM D 2471-71	142°C		
Cure time*		7 days		

\* Après que le matériel ait solidifié, le mûrissement complet peut être accéléré à 51.7°C (125°F).

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

TEST	MÉTHOD	RESULTS	
Hardness	ASTM D 785 65	Shore D	81
Compressive strength	ASTM D 695 80	MPa <sup>†</sup> % max. strain	53 6%
Tensile strength	ASTM D 638 TYPE 1	MPa	43
Flexural strength	ASTM D 790A	MPa	67 (no failure)
Elongation	ASTM D-790A	Mpa	4%
Heat deflection temperature		1. 455 kPa <sup>‡</sup> 2. 1820 kPa	44°C 37°C
Impact resistance	ASTM D 256 81	J/m <sup>§</sup>	79
Linear shrinkage	ASTM D 2566 79	cm/cm	0.009
Abrasion resistance	TABER CS 17-1000 GR		0.062
Thermal linear expansion	ASTM D 696 79		8.63 x 10 <sup>-5</sup>

**PRECAUTIONS**

- Consult the Safety Data Sheet (SDS) before use.
- It is essential to strictly observe appropriate workplace hygiene measures when handling:
  - Ensure adequate ventilation.
  - gloves, safety goggles, and protective clothing.
- Shelf life: Once the container is opened, POLYMÈRES TECHNOLOGIES no longer has any control or responsibility over the product.
- Shelf life of the material in original, unopened containers is one (1) year.
- It is recommended to comply with Provincial and Federal safety regulations. In case of eye contact: rinse thoroughly with water and seek medical attention immediately. In case of skin contact: wash thoroughly with soap and water. Keep out of reach of children.

**WARRANTY**

As the manufacturer and/or distributor has no control over the use and application of this product, no guarantee can be made regarding the results obtained. The warranty is therefore limited to the replacement of any product that the user can demonstrate to the satisfaction of the manufacturer and distributor to be defective. Before using this product, the user must ensure that it is suitable for the intended application. The user assumes all risks associated with its use. It is the user's responsibility to verify that this product meets their needs by conducting short-, medium-, and long-term testing under actual conditions of use and following the provided instructions. This limited warranty excludes any liability for indirect, incidental, or special damages. Except for the warranty described above, the user expressly acknowledges and agrees, upon purchasing this product, that the manufacturer and/or distributor disclaims all other warranties, whether express or implied, including any implied warranty of merchantability and any implied warranty of fitness for a particular purpose.

<sup>†</sup> MPa = 145 lb  
<sup>‡</sup> kPa = .145 psi  
<sup>§</sup> 53.4 J/m = 1 bIF/inch