



**POLYMÈRES**  
technologies

# TECHNO POTTING 8109

Epoxy potting compound  
fire-proof

## DESCRIPTION

**TECHNO POTTING 8109** is a two part fire-proof epoxy compound especially formulated to encapsulate and protect small electronic components to meet the specification UL 94-V-0.

The fast setting characteristics of **TECHNO POTTING 8109** makes it possible to handle components in as little as 24 hours after operations are completed. If you heat cure the parts, you can reach the final cure within a few hours.

Due to the relatively high exothermic reaction, the encapsulation of large parts can be done only with the addition of large amount of aggregates (ie: sand).

This system meets the ROHS European standard which means "Restriction of the use of certain Hazardous Substances in electrical and electronic equipment". This makes the product safe for both the user and the environment as well.

## CHARACTERISTICS

- Fire-proof
- Excellent durability
- Minimal shrinkage
- Insoluble
- Easy to use
- Fast setting

## APPLICATIONS

Pieces to receive **TECHNO POTTING 8109** must be clean and free of any contaminants.

It is recommended to mix part A separately before using as some settling of material is normal after storage.

Mix well **100** parts **A** by **weight** to **9** parts **B** by **weight** until complete homogeneity. Scrape well sides of mixing container to prevent non or badly catalysed resin.

For best results it is recommended to vibrate parts during potting operations.

Uncured material can be cleaned with the solvent **201**.

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

## TYPICAL PROPERTIES (at 22°C)

		PART A	PART B	MIXED
Viscosity	ASTM D-2196 (Brookfield) cps	4500	550	3500
Specific gravity ( )	ASTM D-1475 (g/cm <sup>3</sup> )	1.75	1.02	1.65
Mixing ratio	weight	100	9	100/9
Colour	Visual	Colored	Straw	Colored
Pot life (200 cc)	ASTM D-2471	60 minutes		

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

TEST	METHOD	RESULTS	
Compressive strength	ASTM D-695	MPa*	50
Fire resistance	ASTM D-635 Burning time (dry) Extent of burning (mm)		Self-extinguishing 0 < 5
Linear shrinkage	ASTM D-2566	cm/cm	0.0012
Hardness	ASTM D-2240	Shore D	84

## PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Il est indispensable lors de la manipulation d'observer strictement les mesures d'hygiène de travail appropriées:
  - Assurer une bonne ventilation.
  - Port de gants, de lunettes et de vêtements de protection
- The ambient air must be relatively dry and temperature above 13°C (55°F); relative humidity must be below 70%.
- Scellage du couvert: Plusieurs résines sont sensibles à l'humidité ambiante. Afin de conserver le produit, vous assurer de couvrir le produit sous atmosphère d'azote **TECHNO DRY 7477**.
- 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

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 POTTING 8109**. 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 MPa = 145 lbs/po<sup>2</sup>