TECHNO POTTING™ 3050

Polyurethane potting resin

MIXING RATIO
2A : 1B
by volume

CHARACTERISTICS

- Low viscosity
- Waterproof
- Excellent resistance to chemical products
- High wear resistance
- Flexible

DESCRIPTION

TECHNO POTTING™ 3050 is a 100% solids, two-component polyurethane system used primarily for the production of industrial parts and for potting electrical and electronic components.

Its high adhesion to metal and rigid plastic makes it ideal for sealing components to protect them from the elements and moisture.

With a relatively low viscosity and exothermic reaction, TECHNO POTTING™ 3050 is particularly recommended for encapsulating complex-shaped parts with different cavity thicknesses.

This product also meets the European RoHS (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment) standard, making it a safe system for the user and the environment.

INSTRUCTIONS

It is recommended to mix Part A thoroughly (to redisperse any deposits) before adding Part B. Add 61 parts B to 100 parts A by weight and mix thoroughly until uniform in color. Take care to minimize air infiltration when mixing.

It is recommended to use our TECHNO RELEASE™ 13 release agent to facilitate the demolding operation.

Uncured material can be cleaned using our environmentally friendly POLY CLEANER™.

Contact
POLYMÈRES TECHNOLOGIES
for more information:
support@polymerestechnologies.com

POLYMÈRES technologies

TECHNO POTTING™ 3050

TECHNICAL SHEET
2

Polyurethane potting resin

MIXING RATIO
2A : 1B
by volume

CHARACTERISTICS

- Low viscosity
- Waterproof
- Excellent resistance to chemical products
- High wear resistance
- Flexible

TYPICAL PROPERTIES (22 °C/72 °F)	PART A	PART B	MIX
VISCOSITY (Brookfield (cps))	900	600	750
CONSISTENCY	Liquid		
DENSITY (g/cm^3)	0.99	1.21	1.07
MIXING RATIO by weight	100	61	100/61
MIXING RATIO by volume	2	1	2/1
COLOR	Grey	Hay yellow	Grey
POT LIFE (200 cc)	6 minutes		
EXOTHERMIC TEMPERATURE at 200 cc (ASTM D 2471-71)	68°C		
MIN AND MAX TEMPERATURE EXPOSURE	-30C UP TO +90C		
DEMOLDING TIME	1 hour		
FULL CURE*	1 day		

*After the material has solidified, full curing can be accelerated at 51.7°C (125°F).

PHYSICAL PROPERTIES (SOLID STATE) AFTER 7 DAYS AT 22°C / 72°F

TESTS	METHOD	RESULTS
HARDNESS	ASTM D 2240	80 Shore A
TENSILE STRENGTH	ASTM D 638 Type IV	15.12 MPa
FLEXURAL STRENGTH	ASTM D 790	2.35 MPa
ABRASION RESISTANCE	ASTM D 4060 Taber CS 17 – 1000 g 1000 turns	0.014 g
THERMAL LINEAR EXPANSION COEFFICIENT	ASTM D 696	13.1 x 10^{-5} mm/mm/°C

Contact
POLYMÈRES TECHNOLOGIES
for more information:
support@polymerestechnologies.com

POLYMÈRES technologies

TECHNO POTTING™ 3050

PRECAUTIONS

- FOR INDUSTRIAL USE ONLY.
- Consult material safety data sheet prior to use.
- Normal health and safety measures should be observed when handling this product.
- Do not apply at temperatures below 13°C (55°F).
- Do not mix more material than can be applied, as the pot life is only 6 minutes.
- Ensure good ventilation.
- Wear gloves, safety glasses, and protective clothing.
- Do not use part A without its part B, and vice versa. Shake well parts A and B separately before use.
- Once the container is opened, POLYMÈRES TECHNOLOGIES can no longer be held responsible for this product.
- Shelf life of this product in original containers is one (1) year from the date of purchase, under recommended storage conditions.
- Keep from freezing. Store this product at 22°C (72°F).

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.

sales@polymerestechnologies.com
6330 Boulevard Laurier O, Saint-Hyacinthe, QC J2S 9A7
+1 (450) 250-3058

POLYMÈRES technologies