

POLY GUARD™ 90

Elastomeric
polyurethane
covering grout

MIXING RATIO
2A : 1B
by volume

CHARACTERISTICS

Low viscosity

Flexible with high resistance
to tension, elongation, and
tearing

Impervious

Good abrasion resistance

High wear resistance

Pre-measured kit



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

DESCRIPTION

POLYGUARD™ 90 is a two-component, very chemically resistant, and 100% solid polyurethane coating.

This product is formulated primarily to waterproof surfaces such as concrete, roofs, mechanical rooms, and showers – to name just a few – which are to be exposed to chemically aggressive environments.

INSTRUCTIONS & PREPARATION

The surface must be clean, dry, and free of contaminants. Remove existing coating if necessary. Abrade the surface if necessary.

It is recommended to mix part A well to disperse any deposits before adding part B. For pre-measured units, incorporate part B into the part-A container and mix thoroughly, scraping the sides of the container, for 5 minutes. If the user only requires a small quantity, use the mixing ratio by volume, i.e. 2 parts of A to 1 part of B.

When the product is properly processed, i.e. a precise ratio, a homogeneous mixture of parts A and B, and the latter completely crosslinked, it has no perceptible odor.

Uncured material can be cleaned using our eco-friendly resin cleaner POLY CLEANER™.

LIMITATIONS

Please note that only the applicator is responsible for determining the number of liters required to carry out their project. Calculation of the required liters, surface preparation of the substrate, calculation of the humidity percentage of the substrate, accuracy of the mixing ratio, homogeneous mixing of parts A and B, application of the coating using the roller, a serrated squeegee or not as well as the thickness applied remain the entire responsibility of the applicator.



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TYPICAL PROPERTIES (AT 22 °C/72 °F)	PART A	PART B	MIX
VISCOSITY (Brookfield cps)	900	600	700
CONSISTENCY	Liquid		
SPECIFIC GRAVITY	0,98 gr/cm ³	1,20 gr/cm ³	1,058 gr/cm ³
SOLID CONTENT	100%		
MIXING RATIO BY VOLUME	2	1	2/1
COLOR	Colored	Pale yellow	Colored
POT LIFE (200cc)	30 minutes		
WAITING TIME BETWEEN EACH LAYER	6 to 24 hours		
CIRCULATION	7 days		
FULL CURE*	7 days		

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

Drying time varies depending on air temperature and ambient humidity.

PHYSICAL PROPERTIES (SOLID STATE AFTER 7 DAYS AT 22 °C/72 °F)		
TESTS	METHOD	RESULTS
HARDNESS	ASTM D 2240	Shore A 80-85
TENSILE STRENGTH	ASTM D 638 Type IV	9 MPa (1318 lbs/po ²)
ELONGATION AT RUPTURE	ASTM D 638 Type IV	≥ 400%
TEAR RESISTANCE	ASTM D 624 Moule C	30 – 40 N/mm
ABRASION RESISTANCE	ASTM D 4060 (Taber CS 17) – 1000 gr 1000 tours	0.014 (loss in grams)
WATER ABSORPTION	ASTM D 570	0.26%
COEFFICIENT D'EXPANSION LINÉAIRE THERMIQUE	ASTM D 696	13.1 x 10 ⁻⁵ mm/mm/C



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.
- 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.
- Lid sealing: Many resins are sensitive to ambient humidity. To preserve the product, be sure to cover the product under a nitrogen atmosphere. Store partial containers of Part B under a dry nitrogen atmosphere.
- Keep from freezing and store 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.

ASSUMPTION OF RISK

The customer assumes all risk and liability for the results obtained by the use of any POLYMÈRES TECHNOLOGIES product, including, without limiting the generality of the foregoing, the use of the CHILL EPOXY™ line of products, and the use of any process, whether in terms of general effectiveness, success, or failure, and regardless of any oral or written statement made by way of technical advice or otherwise, related to the use of any POLYMÈRES TECHNOLOGIES product.

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