

NOVOLAC EPOXY JOINT CAST

Chemical-resistant epoxy joint filler

MIXING RATIO
2A : 1B
by volume

CHARACTERISTICS

Pre-measured kits of 6L and 15L

Resists frequent washing as well as industrial cleaners

Good chemical resistance and excellent impact resistance

Antibacterial

Low viscosity

Indoor and outdoor use

Superior adhesion to tiles

Easy to use and mix

No delamination or cracking

DESCRIPTION

TILE GROUT - SECURE BOND™ is a two-component, 100% solid, antibacterial and highly reactive Novolac epoxy casting resin intended for the casting of joints with sand or quartz between hexagonal tiles in the food industry or industrial fields. Its very low viscosity allows easy and efficient pouring between tile joints as small as 3 mm or less.

TILE GROUT - SECURE BOND™ allows perfect wetting of sand or quartz, over the entire depth of the joint. Its high reactivity allows rapid commissioning, especially in agri-food environments where time is an important element.

Its antibacterial characteristic solves the problems of water infiltration when joining tiles in food factories requiring a high level of health. Its antibacterial agent fights the spread of bacteria and mold.

INSTRUCTIONS

PREPARATION

All surfaces must be dry and free of contaminants that may prevent adhesion such as grease, oil, dust, and oxidation. Before using TILE GROUT - SECURE BOND™, be sure to mix 2 parts A with 1 part B by volume (100A to 42B by weight). Mix evenly using a drill with a suitable pinwheel or with a metal spatula for smaller quantities. Mix completely evenly for approximately 4 - 5 minutes, making sure to scrape the edges and bottom of the container well to prevent the resin from remaining sticky and not reaching its maximum properties.

To remove traces of gelled or polymerized resin, use our highly effective and non-toxic POLY CLEANER™. This ecological cleaner is ideal for food processing environments.

We strongly recommend that users validate their techniques before starting production. It is only by diligently following the steps mentioned above that you can achieve structural bonding.

DIRECTIONS FOR USE

As this system offers a pot life of ~60 minutes at 22°C (72°F), no more material should be mixed than can be applied within its pot life. For good results when pouring joints, ensure that the pour reaches the bottom of the joint and fills any gaps between the substrates to be bonded.

Continued on next page

Contact us

for more information:

support@polymerestechnologies.com

NOVOLAC EPOXY JOINT CAST

Chemical-
resistant epoxy
joint filler

MIXING RATIO

2A : 1B

by volume

CHARACTERISTICS

Pre-measured kits of 6L and
15L

Resists frequent washing as
well as industrial cleaners

Good chemical resistance and
excellent impact resistance

Antibacterial

Low viscosity

Indoor and outdoor use

Superior adhesion to tiles

Easy to use and mix

No delamination or cracking

INSTRUCTIONS (continued)

DIRECTIONS FOR USE

Spread the TILE GROUT - SECURE BOND™ using a squeegee on the surface of the tiles and make sure to exert sufficient pressure (manual or mechanical) so that it completely penetrates to the bottom of the joint and perfectly seals it.

Following application, wash the surface mechanically or manually with hot soapy water to remove all of the resin previously spread on the work area. Carry out this operation immediately after spreading TILE GROUT - SECURE BOND™ on the ceramic. Avoid a delay that could cause the latter to start polymerizing and excessive work to fully eliminate it. **The product provides a coverage of approximately 50 sq.ft per liter at a thickness of 0.025 inch.**

Ensure that the assembled tile floor remains at a temperature of 22°C (72°F) for the entire duration of the polymerization. Generally, after 6 hours at 22°C, the joints bear enough resistance to allow for light circulation. Its complete polymerization will be reached after 24 hours at 22°C. Validate before carrying out heavy traffic.

It is important to note that pot life will be shortened in a warmer environment and will be lengthened in a cooler environment. Also, the greater the quantity of resin to mix, the more its pot life will decrease.

STORAGE

Store TILE GROUT - SECURE BOND™ on a pallet or rack or pallet at 22°C (72°F) and less than 60% relative humidity. A colder environment will increase the viscosity of each part A/B and a warmer environment will decrease it. Uncured material can be easily cleaned using our eco-friendly POLY CLEANER™ product.

Contact us

for more information:

support@polymerestechnologies.com



NOVOLAC EPOXY JOINT CAST

Chemical-resistant epoxy joint filler

MIXING RATIO
2A : 1B
by volume

CHARACTERISTICS

Pre-measured kits of 6L and 15L

Resists frequent washing as well as industrial cleaners

Good chemical resistance and excellent impact resistance

Antibacterial

Low viscosity

Indoor and outdoor use

Superior adhesion to tiles

Easy to use and mix

No delamination or cracking

TYPICAL PROPERTIES (AT 22 °C/72 °F)	PART A	PART B	MIXTURE
CONSISTENCY	325	155	225
DENSITY (g/cm ³)	1.10	0.93	1.044
MIXING RATIO BY VOLUME	2	1	2/1
MIXING RATIO BY WEIGHT	100	42	100/42
COLOR	Clear	Clear	Clear
POT LIFE (200 cc)	60 minutes		
SPREADING TIME	95 minutes		
PEAK EXOTHERMIC TEMPERATURE (ASTM D2471-71)	115°C		
FULL CURE*	6-12 hours depending on applied thickness and ambient temperature		

*Possible to accelerate the cure by increasing the ambient temperature to around 26-28°C.

PHYSICAL PROPERTIES (SOLID STATE AFTER 7 DAYS AT 22 °C/72 °F)			
TESTS	METHOD	RESULTS	
HARDNESS	ASTM D 2240	Shore D 80	
ADHESION TO CONCRETE	ASTM C 321	Exceeds the strength of concrete	
TENSILE STRENGTH	ASTM D 638	20.6 MPa*	
ELONGATION	ASTM D 638	4.1%	
COMPRESSIVE STRENGTH	ASTM D 638	32 MPa	
LINEAR SHRINKAGE	ASTM D 2566 79	0.0012 cm/cm	
WATER ABSORPTION	ASTM D 570	24 hours	0.19%
		7 days	1.02%
		2 hours in boiling water	1.97%
SERVICE TEMPERATURE	-	82°C (180°F)	
		Intermittence	100°C (210°F)

*1 MPa = 145 lbs

Contact us

for more information:

support@polymerestechnologies.com

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.

sales@polymerestechologies.com

6330 Boulevard Laurier O, Saint-Hyacinthe, QC J2S 9A7

+1 (450) 250-3058

