

2-part floor epoxy adhesive

MIXING RATIO

1A : 1B

by volume

CHARACTERISTICS

Superior adhesion

No delamination or cracking

Easy to use and mix

Limited odors for food-processing environments

Antibacterial version available

Excellent impact resistance

Indoor and outdoor use

Good chemical resistance

High resistance to humidity

DESCRIPTION

TILEBOND™ is a two-component, 100% solid and highly reactive epoxy adhesive, intended for assembling tiles on concrete slabs in a food and industrial environment. Once applied, the mixture of components forms a highly thixotropic paste with a medium exothermic reaction. TILEBOND™ stands out for its great ability to effectively fill any gap between tiles and concrete slabs. The product will resist a myriad of chemicals (acids, alkalis, and solvents) as well as immersion in water.

TILEBOND™ can be applied to horizontal and vertical surfaces up to 1/16 inch thick, without bleeding. Its creamy consistency allows it to be spread easily and effectively on smooth or porous concrete slabs. Its high-quality wetting of the back of the tiles and the concrete slab allows maximum structural assembly and great impact resistance. It can also structurally assemble metal plates to the concrete slab.

Ideal in environments such as cheese factories, dairies, breweries, meat processing, pharmaceutical and/or chemical plants as well as hospitals.

INSTRUCTIONS

PREPARATION

All surfaces must be dry and free of contaminants that may prevent adhesion, such as grease, oil, dust, and oxidation. Before using TILEBOND™, be sure to mix 1 part A with 1 part B by volume (or 100A for 87B by weight). Mix gently and evenly with a metal spatula or a drill with a suitable pinwheel for approximately 4 - 5 minutes, making sure to scrape the edges and bottom of the container.

We recommend spreading the product on the concrete slab as soon as parts A and B are mixed homogeneously to avoid a premature reaction of the mixture.

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

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Contact

POLYMÈRES TECHNOLOGIES

for more information:

support@polymerestechologies.com



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INSTRUCTIONS (continued)

DIRECTIONS FOR USE

As this system offers a pot life of 45 minutes at 22°C (72°F), no more material should be mixed than can be applied within the pot life. jar. When spread on the concrete slab, the spreading time becomes ~ 75 minutes at 22°C. The product provides a coverage of approximately 12.5 sq.ft per liter at a thickness of 0.125 inch.

Ensure that the substrates, adhesive, and tiles are at the same temperature. 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. For good bonding results, ensure that this product fills any gaps between the substrates to be bonded. Ensure that the assembled substrates remain at a temperature of 22°C (72°F) for the entire duration of polymerization.

TILEBOND™ tends to “blush” (sticky effect) in a humid environment during its polymerization process. To eliminate this appearance, pass a clean wet cloth over the exposed surface and then wipe with a clean dry cloth and the whole thing will be eliminated.

STORAGE

Store containers of TILEBOND™ on a pallet or shelf 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.

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TYPICAL PROPERTIES (AT 22 °C/72 °F)	PART A	PART B	MIXTURE
CONSISTENCY	Gel		
DENSITY (g/cm ³)	1.13	1.01	1.07
MIXING RATIO BY VOLUME	1	1	1/1
MIXING RATIO BY WEIGHT	100	87	100/87
COLOR	Whitish	Amber	Neutral
POT LIFE (200 cc)	45 minutes		
PEAK EXOTHERMIC TEMPERATURE (ASTM D2471-71)	130°C		
FULL CURE*	12-24 hours depending on applied thickness and ambient temperature		

*After the material is solidified, complete curing can be accelerated to 51.7°C (125°F).

PHYSICAL PROPERTIES (SOLID STATE AFTER 7 DAYS AT 22 °C/72 °F)			
TESTS	METHOD	RESULTS	
HARDNESS	ASTM D 2240	Shore D 79	
SAGGING RESISTANCE	-	1/16 po*	
TENSILE STRENGTH	ASTM D 638	24.6 MPa**	
ELONGATION	ASTM D 638	19.1%	
FLEXURAL STRENGTH	ASTM D 790	23.5 MPa	
COMPRESSIVE STRENGTH	ASTM D 638	40 MPa	
LINEAR SHRINKAGE	ASTM D 2566 79	0.0035 cm/cm	
WATER ABSORPTION	ASTM D 570	24 hours	0.21%
		7 days	1.02%
		2 hours in boiling water	1.97%
SHEAR RESISTANCE PROPERTIES	ASTM D 1002	Aluminum	9.5 MPa
		Stainless steel	11 MPa

*0.25-in sag will occur if the thickness reaches 1/8 in.
**1 MPa = 145 lbs

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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