

TECHNO BOND™ 8865 FR

THIXOTROPIC FIRE-
RESISTANT POLYURETHANE
PASTE FOR SEALING
INSULATION PANELS

MIXING RATIO
2A : 1B
by volume

KEY FEATURES

Fire-resistant and compliant with UL94-V0 and CAN/ULC S115 standards.

Antibacterial, anti-allergenic, and VOC-free.

Compliant with LEED standards.

Meets the requirements of CFIA

Applies vertically without flowing (does not sag.)

Adheres perfectly to concrete, stainless steel, and most plastics.

Perfect seal and unlimited lifespan if installed according to our recommendations.

For indoor and outdoor applications (resistant to UV rays).

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

DESCRIPTION

The TECHNO BOND™ 8865 FR is a two-component, 100% solid, fire-resistant polyurethane paste that contains no VOCs. This product is specifically formulated for sealing and structural assembly of wall or ceiling insulation panels, without flow. It is also used for sealing the bottom of metal/composite walls directly onto the concrete slab in environments requiring a fire-resistant standard such as electrical rooms, fuel storage rooms, solvent storage, or others. It can also be used outdoors on building joints.

Our product has been formulated to address major water infiltration issues and, more directly, mold and bacteria production at or near the joints of composite (sandwich) panels in food, medical, pharmaceutical, and industrial facilities.

The product contains fire retardants that ensure flame resistance according to the UL94-V0 standard. It also prevents contamination by fungi and mold, which helps reduce odors and discoloration as well as prevent product degradation.

TECHNO BOND™ 8865 FR complies with ASTM G21 test specifications. Furthermore, its antimicrobial technology is approved by ARLA (Health Canada) and EPA (United States) in addition to complying with the BPR (European Union).

In addition to meeting the ACIA standard, the TECHNO BOND™ 8865 FR contains no priority food allergens requiring mandatory declaration, making it a safe sealant to prioritize in facilities where sanitation is a major and priority concern. Our product adapts to all types of sealing up to 1 inch of opening without flow.

This product can be applied in refrigerators at a temperature of 4°C and reach 80% maturity very quickly within 4 to 6 hours depending on the applied mass, allowing for quick and effective return to service. At the same temperature, its full maturity will be reached within 12 to 18 hours.

Furthermore, TECHNO BOND™ 8865 FR can be exposed to high temperatures up to 60°C. Naturally, the product will lose some of its hardness, but will retain its adhesive power if the surface preparation has been done correctly and according to our recommendations.

TECHNO BOND™ 8865 FR adheres perfectly to different substrates such as concrete, metals (with surface preparation), certain plastics, composite materials, ceramics, natural stones, and rubbers. Its high elongation percentage allows it to follow substrate movements according to exposure temperatures, without delamination.

TECHNO BOND™ 8865 FR resists Foam-Force™ and Oxania™ cleaning products used in food plants. It also demonstrates excellent resistance to chemicals

and thermal shocks and is ideal for hybrid assemblies (two different substrates). Its high thixotropy allows for vertical applications and crack filling.



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DESCRIPTION (continued)

TECHNO BOND™ 8865 FR can be used immersed in water or in certain chemicals. Dust does not adhere to the product if the mixing ratio is precise, completely homogeneous, and if it is fully polymerized. The product provides a smooth finish and is easy to clean.

The product is sold in 450 ml cartridges and is available in white and gray colors. It can also be colored to meet a customer's environmental specifications. Upon customer request, we can provide a certificate of compliance confirming that the specified batch of TECHNO BOND™ 8865 TX meets our manufacturing and analysis standards.

For cleaning, we recommend using our high-performance cleaner POLY CLEANER™ ; it contains no VOCs, has a pleasant odor, and is the perfect alternative to aggressive solvents in food environments (consult the product's technical and safety data sheets for more information).

FOR INDUSTRIAL / PROFESSIONAL USE ONLY.

APPLICATION INSTRUCTIONS

The surfaces to be treated must be clean, solid, dry, and free from any contaminants such as grease, oil, dust, etc.

Properly position the static mixer on the end of the cartridge. Screw the retaining nut firmly onto the static mixer. Install the 450 ml cartridge into the appropriate applicator gun. Allow 1 inch of material to exit so that Parts A and B balance at the output of the static mixer. Slight variance in the mixture ratio can alter its physical properties.

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.

To obtain our technical video on how to use TECHNO BOND™ 8865 FR, please contact POLYMERS TECHNOLOGIES at the following address: support@polymerestechologies.com.

LIMITATIONS

Please note that the applicator alone is responsible for determining the quantity of material required to complete the project.

Calculating the required volume, preparing the substrate surface, determining the substrate moisture percentage, ensuring the accuracy of the mixing ratio, achieving homogeneous mixing of Parts A and B, applying the mixture, and controlling the applied thickness are entirely the responsibility of the applicator.



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THEORETICAL LINEAR COVERAGE according to the applied bead diameter

DIAMETER (IN)	0.125	0.187	0.250	0.375	0.500
LINEAR FEET	-64	-48	-32	-24	-16

Note: The data provided above may vary depending on the angles of the substrates on which TECHNO BOND™ 8865 FR will be applied.

TYPICAL PROPERTIES (at 22 °C/72 °F)	PART A	PART B	MIXED
VISCOSITY	Thixotropic paste		
CONSISTENCY	Paste		
DENSITY (g/cm ³)	1.21	1.11	1.15
MIXING RATIO BY VOLUME	2	1	2/1
COLOR	Red	White	Red

HANDLING AND FINAL CURE TIME

depending on the substrate and the size of the applied bead

	4°C	
HANDLING TIME	4°C	6-8 hours
FINAL CURE TIME		12-18 hours
HANDLING TIME	22°C	4-6 hours
FINAL CURE TIME		8-10 hours

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

TEST	METHOD	RESULTS	
HARDNESS	ASTM D 785	Shore A	90
TENSILE STRENGTH	ASTM D 638 Type IV	MPa	8.5
ELONGATION	ASTM D 638 Type IV	%	>200
TEAR STRENGTH	ASTM D 624 Type C	N/mm	26
WATER ABSORPTION	ASTM D 570 Immersion 24h	%	0.08
USAGE TEMPERATURE	From -20°C to 60°C		





COMPLEMENTARY ACCESSORIES

PRODUCT CODE	PRODUCT NAME	FORMAT(S)
PT-2362	Static mixer	Bag of 50 units
PT-2363B	Retaining nut	Bag of 50 units
PT-4002	Manual applicator gun	450 ml
PT-4003	Pneumatic gun applicator	450 ml
POLY CLEANER™	VOC-free cleaner	1 L / 5gal
T-SOLVANT 914	Acetone	1 gal / 5 gal
T-SOLVANT 907	Isopropyl alcohol 99.9%	1 gal / 5 gal

PRECAUTIONS

- Please refer to the safety data sheet before use.
- Handle this product following standard safety rules and precautions.
- Ensure good ventilation.
- Wear gloves, safety glasses, and protective clothing.
- Do not use Part A without Part B and vice versa. Once the container is opened, POLYMÈRES TECHNOLOGIES no longer has any control or responsibility over this product.
- The shelf life of the product in unopened original containers is one (1) year from the date of purchase, under recommended storage conditions.
- Protect from freezing.

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