

TECHNO BOND™ 8865 TX

THIXOTROPIC
POLYURETHANE PASTE FOR
SEALING INSULATING
PANELS

MIXING RATIO
2A : 1B
in volume

FEATURES

Suitable for food, medical,
pharmaceutical, and industrial
environments

Formulated for production
halls, cold rooms, freezer and
architectural panels

Eliminates water infiltration
problems at panel joints

Prevents the spread of
bacteria and mold in addition
to being non-allergenic

Antimicrobial product



Communicate with
POLYMÈRES TECHNOLOGIES for
more informations :
support@polymerestechologies.com

TECHNICAL DATA SHEET

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DESCRIPTION

DESCRIPTION The TECHNO BOND™ 8865 TX is a two-component, 100% solid polyurethane paste that contains no volatile organic compounds (VOCs). This product is specifically formulated for sealing and structural assembly of wall or ceiling sandwich panels without flow. It is also used for sealing metal/composite base walls directly on the concrete slab. **The key characteristics of TECHNO BOND is its exceptional mechanical and chemical bonding capabilities on stainless steel surfaces.**

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

The product contains an antimicrobial agent that provides protection against fungal contamination and mold, helping to reduce odors and discoloration while preventing product degradation. The TECHNO BOND™ 8865 TX complies with the ASTM G21 test specification. Furthermore, its antimicrobial technology is approved by the Health Canada's ARLA and the US EPA, and it also complies with the European Biocidal Products Regulation (BPR).

In addition to meeting the ACIA standard, the TECHNO BOND™ 8865 TX does not contain any priority food allergens that require mandatory declaration, making it a safe sealant to prioritize in food processing plants.

The product can also repair cracks in concrete floors or walls. It is primarily used indoors in manufacturing facilities. Its formulation allows for a fast-curing time of 18-24 hours at 22°C. Cleaning of the assembly can be done with a water jet as early as 6-8 hours after application, depending on the applied bead diameter. Its service life is permanent if proper installation procedures are followed.

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

The TECHNO BOND™ 8865 TX is resistant to the Foam-Force™ and Oxania™ cleaning products used in food plants. It also demonstrates excellent resistance to chemicals, thermal shocks, and is ideal for hybrid assemblies (two different substrates). Its high thixotropy allows for vertical applications and crack filling.

TECHNO BOND™ 8865 TX can be used for immersion in water or certain chemicals. Dust does not stick 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.



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DESCRIPTION

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

For cleaning purposes, we recommend using our high-performance cleaner, POLY CLEANER™, which contains no volatile organic compounds (VOCs), has a pleasant odor, and is the perfect alternative to harsh solvents in food environments (refer to 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, sound, 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 tightly onto the static mixer. Install the 450 ml cartridge into the appropriate applicator gun. Allow about 1 inch of material to come out so that Parts A and B balance at the outlet of the static mixer. Slight variance in the mixing ratio can affect the 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 TX, please contact POLYMÈRES TECHNOLOGIES at the following address:
support@polymerestechologies.com.

LIMITATIONS

Please note that only the applicator is responsible for determining the quantity of material 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 mixture as well as the thickness applied remain the entire responsibility of the applicator.



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TECHNICAL DATA SHEET

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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

N.B. : The data listed above may change depending on the angles of the substrates on which the TECHNO BOND™ 8865 TX 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	White or gray	Milky white	White or gray

HANDLING AND FINAL CURING TIMES depending on substrate and bead size applied

	4°C	
HANDLING TIME	4°C	18-24 HOURS
FINAL CURE TIME		24-36 HOURS
HANDLING TIME	22°C	12-18 HOURS
FINAL CURE TIME		18-24 HOURS

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

TESTS	METHOD	RESULTS	
HARDNESS	ASTM D 785	Shore A	90
STRENGTH IN TENSION	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
USE TEMPERATURE	From -20°C to 60°C		



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TECHNO BOND™ 8865 TX



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.

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