POLYMÈRES technologies

TECHNO BOND 3056 TX

Thixotropic polyurethane adhesive

DESCRIPTION

TECHNO BOND 3056 TX is a two components thixotropic elastomeric gel frequently used for the assembly of different substrates such as metal, plastics, composites, wood and glass among others. This adhesive shows excellent resistance to chemicals, thermal shocks, impact and elongation. Ideal for vertical applications and gaps filling between the substrates.

TECHNO BOND 3056 TX – Thixotropic Polyurethane Structural Adhesive

TECHNO BOND 3056 TX is a two-component, thixotropic polyurethane adhesive engineered for demanding bonding and sealing applications. Its non-sag, gel-like consistency makes it ideal for vertical or overhead applications, while its high mechanical strength and excellent chemical resistance ensure long-term durability in industrial environments.

Key Features

- Thixotropic paste – stays in place, even on vertical surfaces.
- High mechanical performance – 9 MPa tensile strength and over 300 % elongation.
- Waterproof and chemical resistant – maintains adhesion and flexibility even in harsh environments.
- Excellent impact and vibration resistance – perfect for assemblies exposed to thermal or mechanical stress.
- Easy 2:1 mix ratio – by volume or 100:60 by weight.
- Available in multiple colors – for a clean, professional finish.

Typical Applications

- Bonding of metal, plastic, composite, wood, and glass substrates.
- Sealing and gap filling in structural assemblies.
- Joint bonding in transportation, construction, and manufacturing.
- Vibration-dampening and shock-absorbing adhesive layers.

CHARACTERISTICS

- Waterproof
- Easy mixing ratio by volume
- High resistance to thermal shocks
- Thixotropic gel
- Excellent chemicals resistance
- Available in different colors

APPLICATIONS

Substrate receiving adhesive must be sound, hard, dry and free from all contaminants such as grease, oil, dust, etc.

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Mix 2 parts of "A" and one part of "B" by volume until colour is uniform or mix 100A to 61B by weight until color is uniform.

A variance in mixing ratio can modify physical properties.

The uncured components can be easily cleaned with solvent 905 or 914.

Please consult POLYMERES TECHNOLOGIES for more details based on your application.

TYPICAL PROPERTIES (@ 22°C)

		PART A	**PART B**	**MIXED**
Viscosity	Brookfield (cps)	thixotropic paste	thixotropic paste	thixotropic paste
Consistancy		Paste	Paste	Paste
Density	(g/cm^3)	1.03	1.25	1.10
Mixing ratio	1. by volume:	2	1	2/1
	2. by weight	100	60	100/60
Color		Grey		Grey
Pot life	200 cc mass @ 22°C	45 minutes		
Gel time	200 gr mass @ 22°C	1.5 hours		
Full cure (in days) *	@ 22°C @ 60°C	7* <1		

* After material has solidified the curing process can be accelerated at 52°C (125°F).

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PHYSICAL PROPERTIES (solid state) 7 days after cure at 22°C

TEST	METHOD	RESULTS	
Hardness	ASTM D 785	Shore A	90
Tensile strength	ASTM D 638 Type IV	MPa†	9
Elongation	ASTM D 638 Type IV	%	>300
Tear Strength	ASTM D 624 Type C	N/mm	30
Water absorption	ASTM D 570 24 hours immersion	%	0.80

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Normal health and safety precautions should be observed when handling these products :
  - Ensure good ventilation
  - Wear gloves, safety glasses and waterproof clothes.
- Do not mix more material than possible to apply within the recommended pot life.
- Curing time will be extended if used at temperature lower than 20°C.
- **RESEALING:** Many polymers are moisture sensitive, reseal, using one of the following two (2) methods: blanket with nitrogen or use a hair dryer for 30 seconds to cover with dry air **TECHNO DRY 7477**.
- Once the container is opened **POLYMÈRES** has no control or responsibility for the shelf life.
- Shelf life of product in original closed containers is **one** (**1**) **year**.
- 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.

† 1 MPa = 145 lb/po^2