

**TECHNO
FIX™
552**

**Aluminum-
Reinforced
Epoxy Repair
Paste**

MIXING RATIO
1A : 1B
by volume

CHARACTERISTICS

Excellent adhesion to
aluminum and other metals

Aluminum color

Fills porosities effectively

Quick cure

Almost zero shrinkage

Easy machining and sanding

Highly thixotropic

Can be painted

DESCRIPTION

TECHNO FIX™ 552 is a high-performance, aluminum-filled, 100% solid, fast-curing epoxy repair paste compatible with various surfaces such as molds, aluminum parts, jigs, pipes, and our PROMASTER™ 552 high-density polyurethane boards.

Ideal for repairing holes, cracks, micro-cracks, and any defects that need to be rectified. Also ideal for repairs that need to demonstrate maximum heat dissipation. TECHNO FIX™ 552 can also be used for modifying epoxy or aluminum molds as well as jigs.

This product is highly rigid and easy to sand. It can be machined, drilled, and tapped with conventional metalworking tools. Being highly thixotropic, this product can be easily applied vertically without dripping up to 1 inch. Otherwise, it can be applied in thicknesses up to 1.5 inches. It can also be used as an adhesive in some applications.

INSTRUCTIONS

SAFETY MEASURES & INTRODUCTION

The following steps must be scrupulously followed when using TECHNO FIX™ 552:

1. Make sure all necessary tools and materials are ready before you begin mixing.
2. Mix parts A and B thoroughly for at least 5 minutes following the instructions in the DIRECTIONS FOR USE section.
3. Once the mixture is complete, apply immediately to the surface according to the needs of the user's project.
4. Dispose of unused material properly and in accordance with current regulations.

Continue reading for more details on each step.

PREPARATION

Before using TECHNO FIX™ 552, be sure to mix 1 part A with 1 part B by volume (or 100 A to 82 B by weight) until a homogeneous mixture is obtained. Before applying, ensure that the wood panels and/or components are free of contaminants.

Continued on next page

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



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INSTRUCTIONS (continued)

DIRECTIONS FOR USE

It is recommended to use this product within 18 months.

When applied, the pot life and cure time before sanding will vary depending on the ambient temperature and the mass mixed. The exotherm of the system will vary depending on the thickness applied and the ambient temperature of the work site. Since this product only has a pot life of 30 minutes at 22°C (72°F), care must be taken not to mix more material than can be applied.

Once the mixture is homogeneous, immediately apply to the floor surface. Certain hazardous situations may be incurred if application of the product after mixing is delayed. When left en masse in its container, epoxy can exhibit the following dangerous behaviors:

- **Increased temperature:** The temperature of the epoxy resin can increase significantly, creating potential fire and burn hazards.
- **Viscosity change:** The viscosity of epoxy can change unpredictably, making it difficult to handle safely.
- **Abrupt curing:** Under certain circumstances, leaving epoxy resin in bulk can cause it to harden abruptly, potentially causing burns and damage.

STORAGE & CLEANING

Store TECHNO FIX™ 552 on a pallet or rack at 22°C (72°F) with a relative humidity of less than 60%. 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 isopropyl alcohol or our POLY CLEANER™ product.

COORDINATES

For any inquiries regarding the safe use of TECHNO FIX™ 552, or in the event of an emergency, contact the appropriate emergency services immediately. For further advice, contact us at support@polymerestechnologies.com.

User safety is paramount. The customer's understanding and cooperation in the responsible use of our products is appreciated.

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THEORETICAL COVERAGE

2L FORMAT							
CRACK (in)	0.125	0.187	0.25	0.375	0.5	0.75	1
Linear feet	651	291	162	72	40	18	10
7.56L FORMAT							
CRACK (in)	0.125	0.187	0.25	0.375	0.5	0.75	1
Linear feet	2,462	1,100	615	273	154	69	38
37.8L FORMAT							
CRACK (in)	0.125	0.187	0.25	0.375	0.5	0.75	1
Linear feet	12,312	5,500	3,075	1,367	769	342	192

TYPICAL PROPERTIES (AT 22 °C/72 °F)	PART A	PART B	MIXTURE
CONSISTENCY	Paste		
DENSITY (g/cm ³)	1.63	1.43	1.54
MIXING RATIO BY VOLUME	1	1	1/1
MIXING RATIO BY WEIGHT	100	82	100/82
COLOR	Aluminum grey	Yellow	Aluminum grey
POT LIFE (200cc)	30 minutes		

PHYSICAL PROPERTIES (SOLID STATE AFTER 7 DAYS AT 22°C/72°F)			
TESTS	METHOD	RESULTS	
HARDNESS	ASTM D 2240	Shore D	84
COMPRESSIVE STRENGTH	ASTM D 695	MPa	57.8
BENDING FORCE		psi	46.44
APPLICATION THICKNESS	ASTM D 638 Type 4	Vertical wall	Up to 25 mm
SETTING TIME REQUIRED BEFORE SANDING	Depending on mass applied	4 hours	
COMPLETE CURING TIME		1 day	
TOTAL CURE TIME	Depending on mass	~18 hours	
ELONGATION	ASTM D 638 Type 4	2.1 %	
SHRINKAGE		Cm/cm	0.0007

We strongly recommend the user to validate the application before launching production.



PRECAUTIONS

- 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. Once the container is opened, POLYMÈRES TECHNOLOGIES can no longer be held responsible for this product.
- Shelf life of this product in original, unopened containers is eighteen (18) months from the date of purchase, under recommended storage conditions.
- Keep from freezing. Store this product 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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