

Ultra-fast setting
epoxy for wood
repairs

MIXING RATIO
2A : 1B
by volume

CHARACTERISTICS

Very low viscosity

Adheres reliably to substrates

Can be used for touch-ups

Reduces time of production

Easy sanding



Contact

POLYMÈRES TECHNOLOGIES

for more information:

support@polymerestechnologies.com

DESCRIPTION

CHILL FIX™ is an epoxy system with high UV resistance made with 100% reactive materials. It is an excellent choice for wood restoration and touch-ups after casting. This product offers an ultra-fast setting time and outstanding adherence to optimize your production time.

This product can be applied on all wooden surfaces that are free of grease or contaminants to repair voids, cracks, and knots. Can be sanded 3 hours after application.

INSTRUCTIONS

PREPARATION

Before using CHILL FIX™, mix 2 parts of A with 1 part of B by volume (or 100 A for 44 B by weight). Mix slowly and evenly for about 2 minutes, making sure to scrape the edges and bottom of the container with a metal spatula.

USAGE

Since the pot life of this system is only 13 minutes long at 22°C (72°F) for a mass of 200g, make sure not to mix more material than what can be applied within this time frame. It is important to note that pot life will shorten in a warmer environment and will lengthen in a cooler one. Also, the more resin is mixed, the more its pot life decreases.

Do not mix more than 150mL at a time. The remaining unused mixture might emit a lot of heat; beware of burn risks. Always test the product on a sample prior to using it on a project.

STORAGE

Store CHILL FIX™ on a pallet or shelf at 22°C (72°F) with a relative humidity of less than 60%. A cold environment will increase the viscosity of parts A and B and a warm environment will decrease it. Uncured material can be easily cleaned with isopropyl alcohol or with POLY CLEANER™.



Ultra-fast setting epoxy
Pot life of 13 minutes

A/B kits available in 1.5L size

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EPOXY™
By Polymères Technologies

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TYPICAL PROPERTIES (AT 22 °C/72 °F)	PART A	PART B	MIX
VISCOSITY (Brookfield (cps))	450	125	250
CONSISTENCY	Liquid		
DENSITY (g/cm ³)	1.14	1.01	1.085
MIXING RATIO IN VOLUME	2	1	2/1
MIXING RATIO IN WEIGHT	100	44	100/44
COLOR	Transparent		
POT LIFE for 200g	13 minutes		
PEAK EXOTHERMIC TEMPERATURE (ASTM D 2471-71)	161 °C		
FULL CURE*	8 hours depending on piece design and volume		

*After material has solidified, the curing process can be accelerated at 51.7°C (125°F).

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

TEST	METHOD	RESULTS	
HARDNESS	ASTM D 785 65	Shore D	82
COMPRESSIVE STRENGTH	ASTM D 695 80	MPa*	86.24
		Maximum strain %	3.88
TENSILE STRENGTH	ASTM D 638 Type 1	MPa	44.7
FLEXURAL STRENGTH	ASTM D 790A	MPa	119
ELONGATION	ASTM D 790A	%	2.9
DEFLECTION TEMPERATURE		455 kPa**	59 °C
		1820 kPa	56 °C
IMPACT RESISTANCE	ASTM D 256 81	J/m***	4.9
LINEAR SHRINKAGE	ASTM D 2566 79	cm/cm	0.0014
ABRASION RESISTANCE	TABER CS 17-1000 GR	0.054	
COEFFICIENT OF LINEAR THERMAL EXPANSION	ASTM D 696 79	4.33 x 10 ⁻⁵	

*1 MPa = 145 lb

**1 kPa = 0.145 psi

***53.4 J/m = 1 blF/po

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. 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.
- Keep from freezing.

IMPORTANT:

Part B of this system tends to oxidize if exposed to ambient air. Quickly close the container after use and avoid leaving it in the open for a long period. Keep the containers at a temperature of 22 °C (72 °C) and with a relative humidity of less than 60%.

The oxidation of part B does not affect the performance of the product in any way. The addition of a color pigment will mask the yellowing.

To control this situation, we package our products under nitrogen atmosphere in premium quality metal containers instead of HDPE plastic containers, the latter allowing the product to breathe and get contaminated.

It is important to test the color of the hardener mixed with part A before doing any project. In the event that the obtained color is unsatisfying, the customer should purchase a new kit, as both parts A and B are not usually sold individually.

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