

Offers pronounced
depth and pure
colors

MIXING RATIO

1:1

CHARACTERISTICS

Highly thixotropic

High quality raw materials

Up to 1 inch thick application

Excellent impact resistance

No withdrawal

Glossy finish



Contact

POLYMÈRES TECHNOLOGIES

for more information:

support@polymerestechnologies.com

DESCRIPTION

CHILL PASTE™ is a 100% reactive, highly thixotropic, and UV-resistant epoxy system. This product adds depth and dazzling colors to artistic pieces on canvases or other substrates such as concrete, wood, or metal.

CHILL PASTE™ is the ideal product for applications up to 1 inch thick, displaying pronounced depth and pure colors. It is completely compatible with CHILL DROP™ colored pigments.

INSTRUCTIONS

PREPARATION

Before using CHILL PASTE™, mix 1 volume of part A with 1 volume of part B (or 100 A for 89 B by weight). Mix slowly and evenly with a metal spatula during 5 to 10 minutes making sure to scrape the edges and bottom of the container.

USAGE

Since the pot life of this system is only 60 minutes long at 22°C (72°F), 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.

STORAGE

Store CHILL PASTE™ on a pallet or shelf at 22°C (72°F) with a relative humidity under 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 our ecological product POLY CLEANER™.



Fast setting epoxy
Pot life of 60 minutes

A/B kits available in 2L sizes

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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 AND CONSISTENCY	Paste		
DENSITY (g/cm³)	1.17	1,04	1.09
MIXING RATIO IN VOLUME	1	1	1/1
MIXING RATIO IN WEIGHT	100	89	100/89
COLOR	Whitish		
POT LIFE for 200g	60 minutes		
PEAK EXOTHERMIC TEMPERATURE (ASTM D 2471-71)	161 °C		
FULL CURE*	3 to 7 days 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	80
COMPRESSIVE STRENGTH	ASTM D 695 80	MPa*	84.22
		Maximum strain %	5.9
TENSILE STRENGTH	ASTM D 638 Type 1	MPa	44
FLEXURAL STRENGTH	ASTM D 790A	MPa	119
ELONGATION	ASTM D 790A	%	4.8
DEFLECTION TEMPERATURE		455 kPa**	58 °C
		1820 kPa	56 °C
IMPACT RESISTANCE	ASTM D 256 81	J/m***	3.9
LINEAR SHRINKAGE	ASTM D 2566 79	cm/cm	0.00019
ABRASION RESISTANCE	TABER CS 17-1000 GR	0.061	
COEFFICIENT OF LINEAR THERMAL EXPANSION	ASTM D 696 79	3.98 x 10 ⁻⁵	
<div>*1 MPa = 145 lb</div> <div>**1 kPa = 0.145 psi</div> <div>***53.4 J/m = 1 blF/po</div>			

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.
- Once the container is opened, POLYMÈRES TECHNOLOGIES can no longer be held responsible for this product.
- Shelf life of this product in original closed containers is one (1) year from the date of purchase, under recommended storage conditions.

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.

GUARANTEE

Having no control over the use and application of this product, the manufacturer and/or distributor cannot guarantee the result obtained. The warranty is therefore limited to the replacement of a product that the user has demonstrated to the satisfaction of the manufacturer and distributor that it is actually defective. Before using this product, the user must ensure that the product is suitable for its intended use. Only the user assumes the risks related to this use. The user must ensure that this product meets his needs by conducting tests in the short, medium and long term to validate the results and in the conditions of use and according to the instructions provided. This limited warranty excludes all liability for consequential, incidental or special damages. Except as described above, the user expressly acknowledges and accepts at the time of the purchase of this product that the manufacturer and / or distributor disclaims any other liability and any other express or implied warranty of quality and an implied warranty of quality of the material are expressly excluded.

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EPOXY™
By Polymères Technologies