

CHILL SEALER™

Ideal for
sealing wood

MIXING RATIO

2:1

CHARACTERISTICS

Very low viscosity

Fast curing time

Stabilizes and protects
substrates

Reduces time of production

Easy sanding



Contact

POLYMÈRES TECHNOLOGIES

for more information:

support@polymerestechologies.com

DESCRIPTION

CHILL SEALER™ is a 100% reactive, VOC-free epoxy system especially formulated to stabilize and reliably waterproof all substrates. Cures in only 4 to 6 hours. A new layer can be applied after 3 hours.

This product can be applied on all porous substrates free of grease or contaminants. Ideal for sealing live edges when making river tables. Its low viscosity allows an optimal infiltration and prevents the formation of air bubbles during the exothermic reaction.

INSTRUCTIONS

PREPARATION

Before using CHILL SEALER™, mix 2 volumes of part A with 1 volume of part B (or 100 A for 45 B by weight). Mix evenly with a metal spatula for about 2 minutes making sure to scrape the edges and bottom of the container.

USAGE

Since the pot life of this system is only 20 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. Apply immediately afterward using a new, clean brush or roller; we recommend 2 to 3 layers depending on the porosity of the substrate.

Discard the brush after use. Do not mix more than 300mL at a time. The remaining unused mixture might emit a lot of heat; beware of burn risks.

STORAGE

Store CHILL SEALER™ on a pallet or shelf at 22°C (72°F) at 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 POLY CLEANER™.



Fast setting epoxy
Pot life of 20 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))	675	215	295
CONSISTENCY	Liquid		
DENSITY (g/cm ³)	1.135	1.02	1.085
MIXING RATIO IN VOLUME	2	1	2/1
MIXING RATIO IN WEIGHT	100	45	100/45
COLOR	Transparent		
POT LIFE for 200g	20 minutes		
PEAK EXOTHERMIC TEMPERATURE (ASTM D 2471-71)	168 °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*	91.05
		Maximum strain %	4.4
TENSILE STRENGTH	ASTM D 638 Type 1	MPa	48
FLEXURAL STRENGTH	ASTM D 790A	MPa	121
ELONGATION	ASTM D 790A	%	4.3
DEFLECTION TEMPERATURE		455 kPa**	52 °C
		1820 kPa	54 °C
IMPACT RESISTANCE	ASTM D 256 81	J/m***	75
LINEAR SHRINKAGE	ASTM D 2566 79	cm/cm	0.0024
ABRASION RESISTANCE	TABER CS 17-1000 GR	0.072	
COEFFICIENT OF LINEAR THERMAL EXPANSION	ASTM D 696 79	4.426 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.
- 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.

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.

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.

sales@polymerestechologies.com

6330 Boulevard Laurier O, Saint-Hyacinthe, QC J2S 9A7

+1 (450) 250-3058