

CHILL DEEP POUR™

For massive castings
from 60L up to 100L
($< 2 - 2.5''$ thick)

MIXING RATIO

2:1

CHARACTERISTICS

Crystal clear transparency

High quality raw materials

Excellent impact resistance

100% solid

Self leveling

No withdrawal

Glossy finish



Contact

POLYMÈRES TECHNOLOGIES

for more information:

support@polymerestechologies.com

DESCRIPTION

CHILL DEEP POUR™ is an epoxy system with high UV resistance made with 100% reactive materials. This product can be used to cast river tables from 2 to 2.5 inches thick in a single pour for volumes of 60 to 100L, all the while ensuring no withdrawal and maintaining transparency and high precision.

Its very low viscosity provides maximum infiltration of thin interstices in molds or the different substrates on which this product is poured. Thanks to its long pot life, it is possible to mix many liters at once and pour a large quantity of resin. This product adheres perfectly to all types of wood.

INSTRUCTIONS

PREPARATION

Before using CHILL DEEP POUR™, mix 2 parts of A with 1 part of B by volume (or 100 A for 44 B by weight). Mix slowly and evenly with a metal spatula for a period of at least 5 to 10 minutes making sure to scrape the edges and bottom of the container.

USAGE

With a pot life of more than 850 minutes at 22°C (72°F) for a mass of 200g, it is possible to mix many liters at once and pour a large quantity of resin. 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 DEEP POUR™ 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™.



Slow setting epoxy
Pot life of more than 850 minutes

A/B kits available in 30L and 60L sizes

CHILL
EPOXY™
By Polymères Technologies

TYPICAL PROPERTIES (AT 22 °C/72 °F)

		PART A	PART B	MIX
VISCOSITY	Brookfield (cps)	700	55	195
CONSISTENCY		Liquid	Liquid	Liquid
DENSITY	g/cm ³	1,10	0,94	1,035
MIXING RATIO	By volume	2	1	2/1
	By weight	100	44	100/44
COLOR		Transparent	Transparent	Transparent
POT LIFE	200g	>850 minutes		
DEMOLDING TIME		5 to 7 days depending on mass		
PEAK EXOTHERMIC TEMPERATURE	ASTM D 2471-71	40°C		
FULL CURE*		7 days		
*After material has solidified, the curing process can be accelerated at 51.7°C (125°F).				

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 product in original closed containers is one (1) year.

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

TEST	METHOD	RESULTS	
HARDNESS	ASTM D 785 65	Shore D	83
COMPRESSIVE STRENGTH	ASTM D 695 80	MPa*	91.54
		Maximum strain %	4.2%
TENSILE STRENGTH	ASTM D 638 Type 1	MPa	47
FLEXURAL STRENGTH	ASTM D 790A	MPa	120
ELONGATION	ASTM D 790A	MPa	5.2%
DEFLECTION TEMPERATURE		455 kPa**	62°C
		1820 kPa	52°C
IMPACT RESISTANCE	ASTM D 256 81	J/m***	81
LINEAR SHRINKAGE	ASTM D 2566 79	cm/cm	0.00015
ABRASION RESISTANCE	TABER CS 17-1000 GR	0.057	
COEFFICIENT OF LINEAR THERMAL EXPANSION	ASTM D 696 79	4.055 x 10 ⁻⁵	

*1 MPa = 145 lbs
 **1 kPa = 0.145 psi
 ***53.4 J/m = 1 blF/po

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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