

Ultra-versatile flood coat epoxy resin

MIXING RATIO

2A: 1B

by volume

### CHARACTERISTICS

Self leveling

Excellent UV resistance

Low viscosity

Glossy finish

Heat & impact resistance



# CLEARTEC 1300™

### **DESCRIPTION**

CLEARTEC 1300™ is a 100% reactive, crystal clear, optical quality, self-leveling epoxy resin with excellent UV resistance. Its low viscosity and medium curing time make it the most versatile product for wood protection and repairs.

CLEARTEC  $1300^{\text{TM}}$  can be applied in thin layers or cast at a thickness of up to 0.5 inches (13 mm). It can be used to fill in cracks or wood engravings, as a topcoat, marine applications, or as a seal coat/flood coat on wood surfaces.

### **INSTRUCTIONS**

### **PREPARATION**

Before using CLEARTEC  $1300^{\,\text{TM}}$ , shake well each container of part A and B. Mix 2 volumes of part A with 1 volume of part B (or 100 A for 42 B by weight). Mix slowly and evenly with a metal spatula for 5 to 8 minutes making sure to scrape the edges and bottom of the container.

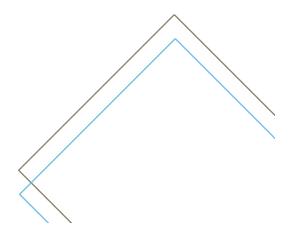
#### **USAGE**

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.

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 CLEARTEC 1300™ on a pallet or shelf at 22°C (72°F) and at 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 POLYCLEANER™.



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# CLEARTEC 1300™

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TYPICAL PROPERTIES (AT 22 °C/72 °F)	PART A	PART B	MIX	
VISCOSITY (Brookfield (cps))	725	195	225	
CONSISTENCY	Liquid			
DENSITY (g/cm³)	1.14	1.00	1.09	
MIXING RATIO IN VOLUME	2	1	2/1	
MIXING RATIO IN WEIGHT	100	42	100/42	
COLOR	Transparent			
POT LIFE for 200g	60 minutes			
DEMOLDING TIME	7 days depending on the mass			
PEAK EXOTHERMIC TEMPERATURE (ASTM D 2471-71)	168 °C			
FULL CURE*	3 days depending on piece design and volume			
*After material has solidified, the curing process can be accelerated at 51.7°C (125°F).				

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

# 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*	91.62
		Maximum strain %	3.9
TENSILE STRENGTH	ASTM D 638 Type 1	MPa	46
FLEXURAL STRENGTH	ASTM D 790A	MPa	119
ELONGATION	ASTM D 790A	%	4.1
DEFLECTION TEMPERATURE		455 kPa**	52 °C
DEFLECTION TEMPERA	TORE	1820 kPa	54 °C
IMPACT RESISTANCE	ASTM D 256 81	J/m***	77
LINEAR SHRINKAGE	ASTM D 2566 79	cm/cm	0.0021
ABRASION RESISTANCE	TABER CS 17-1000 GR	0.068	
COEFFICIENT OF LINEAR THERMAL EXPANSION	ASTM D 696 79	4.135 x 10 <sup>-5</sup>	

<sup>\*1</sup> MPa = 145 lb

<sup>\*\*1</sup> kPa = 0.145 psi

<sup>\*\*\*53.4</sup> J/m = 1 blF/po

# CLEARTEC 1300™

### **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  $^{\circ}$ C (72  $^{\circ}$ 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<sup>TM</sup> 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.

#### Important Notice – Final Sale

All products sold through our online store are final sale. We do not accept returns, exchanges, or issue refunds once an order has been shipped.