

DESCRIPTION

CHILL FIX™ is a 100% reactive clear epoxy fast setting system with very low viscosity and high ultraviolet resistance allows repairing voids, cracks and knots on wooden substrates such as river tables, serving boards among others.

Its low viscosity and high reactivity allow to quickly fill any small repairs in a short period of time (few hours). CHILL FIX™ can be pigmented with our CHILL DROPS™ opaque and transparent series. It is also totally compatible with our metallic pigments.

The CHILL FIX™ is sold in format of 1.5L. Larger formats available upon request.

This system also meets the European RoHS standard.

CARACTERISTICS

- High quality raw materials
- Easy mixing ratio of 2A/1B by volume
- Excellent UV resistance
- Glossy Finish
- Excellent impact resistance
- Very low viscosity
- Crystal clear transparency
- Meet the RoHS standard
- No withdrawal
- Fast handling time

APPLICATION

Before using CHILL FIX™, make sure the wooden/epoxy sections are free of any contaminant (dirt, oil and grease).
SURFACE PREPARATION: Protect work area from accidental spills. Slightly rough down repair area.

Heat is generated while the epoxy mixture cures; the more epoxy and hardener that is mixed together, the more heat that is generated causing the epoxy mixture to cure faster. Only mix the amount of epoxy and hardener together that can be used within the working time.

Mix 2 parts of "A" to 1 part of "B" by volume until colour is uniform. A small variance in mixing ratio can modify physical properties.

Avoid eye and skin contact. In case of eye contact, wash thoroughly with water and consult physician immediately. In the event of skin contact, wash thoroughly with soap and water.

Keep out of reach of children.

IMPORTANT: WE STRONGLY RECOMMEND TO VALIDATE YOUR TECHNIQUES BEFORE LAUNCHING PRODUCTION. THE SUCCESS OF YOUR ARTWORK IS BASED ON THE ABOVE MENTIONED STEPS :

It is important to note that the pot life time will be shortened in a warmer environment and will be lengthened in a cooler environment. The handling time will reflect the temperature level. Also, the greater the amount of resins to be mixed, the shorter the pot life time will be.

Store CHILL FIX™ at 22 °C with relative humidity less than 60%. A cold environment will increase the viscosity of each part A and B and a warmer environment will decrease it. Uncured material can be easily cleaned using our green biodegradable formulation CHILL CLEANER™.

Contact POLYMERES TECHNOLOGIES for more information. support@polymerestechologies.com

TYPICAL PROPERTIES (AT 22°C)

		PART A	PART B	MIXED
Viscosity	Brookfield (cps)	450	125	325
Consistency		Liquid	Liquid	Liquid
Density	g/cm ³	1.14	1.01	1.085
Mixing Ratio	1. By volume	2	1	1/1
	2. By weight	100	44	100/44

Color		Transparent	Transparent	Transparent
Pot life		13 minutes		
Gel Time		24 minutes		
Peak Exothermic Temperature	ASTM D 2471-71	161°C		
Full cure*		24 hours @ 22°C		

PHYSICAL PROPERTIES (solid state) 7 days after cure at 22°C

TEST	METHOD	RESULTS	
Hardness	ASTM D 785 65	Shore D	82
Compressive strength	ASTM D 695 80	MPa* % max. strain	86.24 3.88%
Tensile strength	ASTM D 638 TYPE 1	MPa	44.7
Flexural strength	ASTM D 790A	MPa	119
Elongation	ASTM D-790A	Mpa	2.9%
Deflection Temperature (°C)		1. 455 kPa [†] 2. 1820 kPa	59 °C 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

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Normal health and safety precautions should be observed when handling these products.
- Ensure good ventilation.
- Wear gloves safety glasses and protective clothing.
- Once the container is opened **POLYMÈRES** has no control or responsibility for the shelf life.
- Shelf life of product in original closed containers is **one (1) year**.

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.

GARANTEE

Having no control over the use and application of this product, the manufacturer and / or the 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.

* After material has solidified the curing process can be accelerated at 52°C (125°F).

† MPa = 145 lb

† kPa = .145 psi

† 53.4 J/m = 1 blF/inch