

Technical data sheet

PERMACOL 2150



DESCRIPTION

The Permacol 2150 A/B is a UV stabilized, crystal clear two component epoxy casting resin. Extremely suitable for pouring thick layers. Suitable for decorative items and river tables. Applicable on many different surfaces such as wood, glass, stone. Concrete and metals. It is possible to color this product with dyes that are suitable for use in epoxy casting resins.

Technical details	
Base	Epoxy
Number of components	Two components
Ratio A:B	100:40 (weight)
Color	Crystal clear
Viscosity (mixture)	350 mPa.s
Processing time	ca. 1-2 hours
Touch dry after	ca. 24-48 hours
Full cure after	7 days
Hardness	80 Shore D
Density	1,15 g/ml
Thermal conductivity	0,2 W/m.K
Glass transition (Tg)	42°C
CTE beneath Tg	80 ppm/°C
CTE above Tg	220 ppm/°C

USAGE INSTRUCTIONS

Let the product acclimate to room temperature if needed. If the product is used too cold, air bubbles cannot escape properly. Weigh both components in the ratio 100:40 by weight.

Mix thoroughly but gently so that not too many air bubbles are created in the mixture. Initially the mixture becomes cloudy. Keep mixing gently until a crystal-clear mixture is formed. Transfer the mixture to a new mixing bowl and mix thoroughly again. This prevents less well-mixed resin from remaining on the walls or in the corners of the mixing bowl.

Bubbles may form during pouring. These disappear on their own within an hour.

BENEFITS

- Easy to pour (low viscosity)
- Very good UV resistant
- Crystal clear
- Self-venting
- Water resistant
- Contains no solvents
- RoHS and REACH compliant

Heat is released when the casting resin hardens. The thicker the layer, the more heat is released. If too much heat is released, this can have negative effects on curing, such as yellowing and the formation of cracks and bubbles. It is therefore important not to use the product in thick layers at temperatures above 23°C. We also recommend not pouring layers thicker than 10 centimeters. For layers thinner than 1 cm we recommend the Permacol 2152.

The curing time depends on the cast thickness. Thick layers harden faster than thin layers. The curing time of thin layers (< 1 cm) can be shortened by curing at 40°C.

CLEANING

Uncured casting resin can be removed and cleaned by means of solvents such as Ethanol, Acetone, Isopropanol (IPA) or MEK. Cured adhesives must be removed mechanically.

STORAGE

Store in its original packaging at temperatures below 30°C. If necessary, let the casting resin acclimate to room temperature before usage. See packaging for the expiration date. Shelf life: 12 months.

SAFETY

Use protective gloves to avoid direct contact with the skin. Check the Material Safety Data Sheet for specific safety information.

PACKAGING

The PERMACOL 2242 A/B is available in different quantities of bottles and cans

Legal Disclaimer

The products of Permacol (the "Supplier"), are sold subject to the supplier's standard conditions of sale, which are included in applicable sales agreements, printed on the back side of invoices, or available upon request. Although the information, recommendations or advice contained herein is given in good faith, supplier makes no warranty or guarantee, express or implied, (I) that the results described herein will be obtained under end-use conditions, or (II) as to the effectiveness or safety of any design incorporating supplier's products, recommendations or advice. Nothing in this or any other document shall alter, vary, supersede or operate as a waiver of any of the supplier's standard conditions of sale.

Each user bears the full responsibility for making its own determination as to the suitability of Supplier's products, recommendations or advice for its own particular purpose. Each user must identify and perform tests and analyses sufficient to assure it that its finished parts will be safe and suitable for use under end-use conditions. Because actual use of products by the user is beyond the control of Supplier, such use is within the exclusive responsibility of the user, and Supplier cannot be held responsible for any loss incurred through incorrect or faulty use of the products. Further, no statement contained herein concerning a possible or suggested use of any product is intended or should be construed to grant any license under any patent or other intellectual property right of Supplier, or as a recommendation for the use of such material in the infringement of any patent or other intellectual property right.