

Syntech Epox Timber

Two-component transparent resin for the creation of wood-resin objects



Syntech Epox Timber is a liquid, transparent, two-component epoxy resin for incorporating thick objects, mass filled casting and the treatment of wood. Its self-levelling and non-yellowing nature, along with its scratch-resistance and fluid consistency, render it ideal for pouring and for filling any voids. The final effect of Syntech Epox Timber is a smooth and even surface with a transparency similar to glass. It is also possible to colour the product with specific pigments to achieve a coloured transparent effect. It is advisable to conduct preliminary tests to achieve the desired aesthetic effect.

CUSTOMS CODE: 3907 3000

COMPONENTS: Two-components

APPEARANCE: Liquid + Liquid

AVAILABLE COLORS: Transparent

PACKAGING AND DIMENSIONS: Pail 0.7 kg [A] - Pail 3.5 kg [A] - Pail 0.3 kg [B] - Pail 1.5 kg [B]
 - Kit: 1 Pail 0.7 kg [A] + 1 Pail 0.3 kg [B] - Kit: 1 Pail 3.5 kg [A] + 1 Pail 1.5 kg [B]

FEATURES AND BENEFITS

Syntech Epox Timber can be applied in thicknesses from 0.5 to 10 cm for the creation of tables and shelves in wood and resin, artistic creations and high thickness castings in which to incorporate small parts, stones, shells and objects in general, including metal. Higher thicknesses and castings without inserting embedded objects can cause overheating during the catalysis of the product. Syntech Epox Timber has excellent chemical resistance, abrasion, scratches and wear, has a high degree of transparency that lasts over time thanks to UV filters, the self-leveling consistency and low viscosity facilitate the elimination of bubbles air and allow to obtain planar surfaces, it does not contain solvents. Excellent resistance to water, basic solutions. Fair resistance to acids and solvents.

FIELDS OF APPLICATION

Syntech Epox Timber is a transparent vitrifying resin to be applied by pouring for the construction of tables and wood-resin surfaces, by incorporating boards, fragments or sections of wood, even irregular, appropriately treated and thick coatings on even wood surfaces.

ALLOWED SUPPORTS

Wood

PREPARATION OF SUPPORTS

If the support is absorbent, such as untreated wood or porous materials, it must be previously treated with the same Syntech Epox Timber applied by brush to avoid the formation of air bubbles. To make bulk filler castings, prepare suitable molds of the desired shape. Make sure you have 'leveled' the surface so that the resin can level itself correctly and thus a perfectly flat surface is obtained.

MODE OF USE

Mix components A (basic formulation) and B (hardener) each in their own container before mixing; then pour component B into the container of component A. Mix everything for a few minutes using a mechanical stirrer at variable speed until a homogeneous mixture is obtained, with a uniform color and free of lumps. Do not take partial quantities from the packs to avoid any errors in the mixing ratio which would cause failure or incomplete hardening. After mixing, proceed by pouring the mixture into the previously prepared mold. High thickness castings require hardening times between 48-72 hours at a temperature of 25-30 ° C. To avoid surface defects or lengthening of the hardening time, it is advisable to work in an environment with a temperature of at least 25 ° C, a temperature to be maintained throughout the hardening period. The completely hardened product can be polished like normal lacquers paying attention to the residual elasticity, during the polishing process it is necessary to avoid overheating the surface to avoid temporary softening. Otherwise, you can proceed with the application of clear acrylics after having sanded the resin with 500/1000 paper.


APPLICATION METHODS

Pour out

TOOL CLEANING


Water


KEY FEATURES

 Density: 1.07 ± 0.02 kg/l


A:B Mixing ratio: 3:1 _


 Shelf-life: 12 months


 Temperature of use: +20 / +30 °C


 Use wearing protective gloves

 Max. recommended thickness: 10 cm

 Pot-life: (*) 200 min

 Solvent-free

 Use wearing protective glasses

 UV-resistant

TECHNICAL SPECIFICATIONS

Adhesion to substrate > **4 MPa**

ASTM D 638

Longitudinal elongation at break **3.2 ± 0.2 %**

*

Touch hardening at 20°C **8 h**

A+B

Viscosity **1000 - 1100 mPas**

max

Working temperature **57 °C**

*

Complete hardening at 20°C **7 day**

(*) Times are reduced as mass, thickness and temperature increase.

*

Time before second coat at 20°C **4 - 5 h**

Shore D EN ISO 868

Hardness **80**

Compressive strength **80 MPa**

CONSUMPTION

Approximately 11 kg / m² of Syntech Epox Timber for each centimeter of thickness to be created (approximately 1100 kg for each cubic meter).



STORAGE AND CONSERVATION

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.

PHOTO GALLERY



ADDITIONAL CONTENT



WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

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It is forbidden to dispose of the product and/or packaging in the environment.

