



R-FAST

Technical Data Sheet

Description

R-FAST is a 2-component molding epoxy casting system. It is used for small projects. **Maximum recommended thickness is 1" (2.5 cm), with a maximum of 3 liters per pour.** Without VOC, R-FAST is made from premium quality raw material. It offers very high resistance to UV (anti-yellowing). The low color and low viscosity allow for bubble free, crystal clear castings. When catalyzed, R-FAST meets FDA requirements (contact with food).

Primary applications

- Charcuterie board
- Engraving
- Small projects

How to calculate the desired amount of epoxy

The easiest way to calculate the epoxy for your project is to measure the volume in cubic inches and convert to liters by dividing the result by 61 (in³ divided by 61 = liters).

EX: 10" wide X 72" long X 2" thick = 1440 in³ 1440 divided by 61 (conversion factor) = 23.6 liters

Restrictions

- **In case of freezing: The molecules of part A tend to agglomerate in cold weather, which has the effect of creating the formation of crystals/sediment in the bottom of the container (the epoxy has a blurred appearance). It is essential to heat the containers in a hot water bath until the temperature of the product reaches 55°C (130F). Following this procedure, the product will become completely liquid. Please note that no replacement or compensation will be granted. It is the responsibility of the user to check the condition of the product before each use. See crystallization document.**
- R-FAST should be kept in a dry place between 15°C and 25°C (59F/ 77F), away from the sun and out of reach of children.
- Resin and hardener should not be left in an open container.
- It should not be used when humidity is above 60% and when the temperature exceeds 25°C.
- R-FAST should be used within one year of purchase.
- **Use a fan during high-mass castings to avoid any risk of exothermic reaction.**

Technical specifications and mechanical data

<u>Colour</u>	<u>Clear</u>
<u>Mixing ratio by volume</u>	<u>2A : 1B</u>
<u>Mixing ratio by weight</u>	<u>100 (A) : 45 (B)</u>
<u>Viscosity of the mixture</u>	<u>450cps</u>
<u>Pot life (21°C)</u>	<u>20 min</u>
<u>Gel time (swirls)</u>	<u>+/- 8 hours</u>
<u>Recommended full cure</u>	<u>24 hours</u>
<u>Optimal curing temperature</u>	<u>18–21°C (65–70F)</u>
<u>TG Ultime (glass transition)</u>	<u>75°C (167F)</u>
<u>*Recommended Thickness</u>	<u>Minimum 1/4" – Maximum 1"*</u>
<u>Peak exotherm temperature</u>	<u>39°C (102F)</u>
<u>Hardness (shore D)</u>	<u>82</u>
<u>Cleaning</u>	<u>Xylene / Acetone</u>

***Based on a temperature of 18°C considering the volume (mass effect)**

Health and safety

In case of contact with skin, wash with soap and water for 5 minutes. In case of contact with eyes, rinse immediately for about 15 minutes. In case of respiratory problems, transport the victim to fresh air. Components A and B contain toxic ingredients that can cause severe allergic reactions. If in doubt, seek medical attention immediately. Prolonged contact can cause skin irritation. Wear gloves and safety glasses at all times. When sanding, use a dust collector and NIOSH/MSHA approved respirator / mask. Consult safety data sheet for more details.

Important Notice

The information and recommendations contained in this document are based on reliable Ryver epoxy results and tests. If used in combination with other materials, results may vary. It is the user's responsibility to test the product before using it on a large scale.

Ryver epoxy assumes no legal liability for direct, indirect, consequential economic or other damages. Unless otherwise agreed, Ryver epoxy will not assume any replacement of product in case of misuse or lack of knowledge towards said product. It is the responsibility of the user to read this data sheet in order to understand the constraints related to the use of this product.

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