

SILICONES

and more SAM Laminating Epoxy Resin

The low viscosity (very fluid) of this clear epoxy casting resin makes it suitable for detailed casting of small objects and is suitable for 0.1 cm castings. up to 2 cm thickness.

This epoxy resin is very suitable for pouring floors with different effects, pouring over works of art, pouring over photos, etc.

This epoxy resin contains a UV blocker, which makes yellowing less likely. With the final hardness of Shore D 90 you get a very hard end result.

You can find a less liquid, viscous epoxy resin here: [SAM HT Laminating Epoxy Resin - Heat resistant up to 140°C](#)

You can find an epoxy resin for thicker castings here: [SAM River & Art Epoxy Resin - 1 to 10 cm. pouring thickness](#)

Specifications

Mixing ratio by weight: A:B = 100:33

Color: clear, colorless

Processing time 100 gr. at 25°C: 30 minutes*

Curing time at 25°C: 8-10 hours*

Fully cured after: 3 days

UV blocker: yes

Hardness: Shore D 90

Density: 1.09 g/cm³

Viscosity: 400-700 cPs

Temperature resistant up to: 80°C

Minimum casting thickness: 0,1 cm

Maximum casting thickness: 2 cm

Maximum quantity to be processed in one go: 10 kg**

**With a larger quantity, the processing time and curing time will be shorter!*

***We recommend not to process the maximum amount in one go if you have little experience. If you want to do this, work at 18°C with a mixing bucket with a large bottom/diameter and know that you have a very short processing time!*

Processing

Make sure that the surface is tight and not porous. This can cause air bubbles in the epoxy. Use a thin layer of epoxy or [primer](#) for this.

Always use safety gloves and goggles when handling this material. Process the resin at room temperature (18-25°C) and at a humidity lower than 70%. In order not to get any deformation in the surface, the temperature must remain constant during the entire curing process. Also avoid direct sunlight through a window and prevent drafts.

Add the A and B component in the correct ratio (A: B = 100: 33 by weight) and mix well. Allow enough time for mixing (2-3 minutes) and make sure the corners and bottom of the mixing bowl are included. Optionally, you can pour the whole thing into a second bowl and mix it again. Now add any color effects and stir again. Let air bubbles escape for a minute. If necessary, help by vibrating / rattling the tray. Please avoid the epoxy getting too hot in the mixing bowl. Start pouring immediately if needed.

The Epoxy resin is now ready for use. Apply the mixture with a brush or pour the mixture into your mold or prepared model in a thin stream.

Please note that you should use a large-bottomed mixing bowl for larger quantities. Avoid creating a thick layer of epoxy in the mixing bowl as this heats up very quickly!

Removing air bubbles works best with [Air extractor](#) or by using a flame. Please do not use flames if you thinned the epoxy down with alcohol or other flammable products.

If you are going to apply the resin in several layers (multi-layer work):

Wet on wet:

When pouring a second layer of a liquid into a first layer of epoxy liquid, you have to make sure that the exothermic reaction has completely worn off. An exothermic reaction is a reaction that releases energy. In this case, heat. If you want to be sure of this, you wait until the second layer is no longer sticky, but still retains a fingerprint when touched.

Wet on dry:

It is necessary to sand the previous layer and make it dust and grease free.

Characteristics

- ✓ Heat resistant up to 80 °C
- ✓ Can be processed up to 10 kg * in 1 go
- ✓ Clear, colorless, UV blocker
- ✓ Liquid as pouring syrup (viscous)
- ✓ Shore D 90 (hard)
- ✓ Castings 1 mm <> 20 mm
- ✓ 30 minutes working time *
- ✓ Mixer. (Weight) 100:33



Safety

In liquid form this product is harmful to your health. Avoid skin contact with either component. Vapours of this product may cause respiratory irritation with prolonged or frequent use. When handling this product, wear protective gloves, and goggles. Always work in a well ventilated area. For further information see Safety Data Sheet.