SAM Deep Epoxy Resin

Characteristics

✔ Especially for casting thick objects
✔ Can be processed up to 20 kg ** in one go
✔ Clear, colorless, UV blocker
✔ Temperature resistant up to 80 ° C
✔ Shore D 75
✔ Castings 5 cm <> 20 cm
✔ 40 minutes working time *
✔ Mixer. (Weight) 100:33

We have selected this epoxy casting resin especially for casting thick objects. You can use this clear epoxy resin for layers with thicknesses from 5 to 20 cm. Extremely suitable for thick river tables, large objects or pouring in objects. This is an unparalleled product that is especially praised by the professional user for its long curing time and ease of use.
This resin is not suitable for small / thin castings, because the curing takes too long.

Specifications

- Mixing ratio by weight: A:B = 100:33
- Mixing ratio by volume: A:B = 100:50
- Color: clear, colorless
- Processing time 100 gr. at 25°C: 40 minutes*
- Curing time at 25°C: 18-24 hours*
- Fully cured after: 3 days
- UV blocker: yes
- Maximum casting in one go: 200 kg.
- Hardness: Shore D 75
- Density: 1.09 g / cm³
- Viscosity: 700-1400 cPs
- Temperature resistant up to: 80°C
- Minimum casting thickness: 5 cm
- Maximum casting thickness: 20 cm
- Maximum quantity to be processed in one go:20 kg**

**With a larger quantity, the processing time and curing time will be shorter!*
** If you have little experience, we recommend not to process the maximum amount in one go. If you still want to do this, work at 18°C with a mixing bucket with a large diameter and take into account a very short processing time! When casting 20 Kg, please cast layers with a maximum thickness of 5 cm.*

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 (18-25oC) 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 to hot in the mixing bowl. Start pouring immediately if needed.
The Epoxy resin is now ready for use. Pour the mixture into your mold or prepared model with 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 airbubbles 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 flamable 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.

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.