

# SILICONES

## and more SAM HT Epoxy Resin

A beautiful epoxy laminating resin with heat resistance up to 140 ° C and a high viscosity (viscous). After curing a high hardness of shore D90. The fluidity like pouring syrup makes this epoxy resin ideal for laminating sloping surfaces.

Used, among other things, for finishing surfaces for high heat resistance such as kitchen worktops and ease of application due to the viscosity. You can apply the layer with a brush or roller. Can also be used for casting small jewelry, encapsulating LEDs and moisture-resistant potting of electronics and as a laminating material in combination with carbon fabric for paddles, sports equipment, bars, etc

You can use this epoxy from 0.05 to max 1 cm. If you want to pour thicker, choose another epoxy such as the [SAM River & Art Resin 1> 10 cm.](#)

### Technical specifications

- Mixing ratio by weight: A: B = 100:50
- Color: clear
- Processing time 100 gr. at 25°C: 15 minutes\*
- Curing time at 25°C: 4 hours\*
- Fully cured after: 1 day
- UV blocker: yes
- Hardness: Shore D 90
- Density: 1.09 g/cm<sup>3</sup>
- Viscosity: 4083-6750 cPs
- Temperature resistant up to: 140°C
- Minimum casting thickness: 0,05 cm
- Maximum casting thickness: 1 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 now 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: 50 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. Apply the mixture with a brush or 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 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,

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:*

### Characteristics

- ✓ Heat resistant up to 140 ° C
- ✓ Can be processed up to 10 kg in one go
- ✓ Clear, colorless, UV blocker
- ✓ Liquid as pouring syrup (viscous)
- ✓ Shore D 90 (hard)
- ✓ Castings 0.05 mm <> 10 mm
- ✓ 15 minutes working time \*
- ✓ Mixer. (Weight) 100:50



### 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.