

SILICONES and more

Characteristics

- 1:1 mixing ratio
- Low viscosity
- Detailed copies
- Low shrinkage
- Fast de-molding
- Pourable in relative large quantities

Gelcoat Universal ISO

Do not forget to order the MEKP hardener (1.5 -2%)

A polyester gelcoat is used as the first layer of polyester resin in a laminate and ensures good adhesion and waterproofness.

After hardening, this gelcoat is resistant to water and temperature changes.

This gelcoat is suitable for ponds, but we do not recommend it for swimming pool water or water to which chemicals have been added, such as Aquariums. You can find a gelcoat for swimming pools and aquariums under the name: [Gelcoat Premium](#)

This universal variant is food safe!

Technical data:

- Mixing ratio (100 grams at 20 ° C): 100: 2 (1.5 to 2% MEKP hardener.)
- Processing time: 20 minutes
- Gel time: 20-30 minutes
- Viscosity: 300-400 cSt
- Density: 1.30 ± 0.05 g / cm³
- Barcol hardness: 38-40
- Coverage power: > 400µ
- Gel time: 20-30 minutes
- Time to Exothermal: 34-55 minutes
- Exothermal peak: Fig 130 ° C ± 20°C
- Tensile strength (ISO 527 - 1/2 - 1993): 80 MPa
- Tensile modulus (ISO 527 - 1/2 - 1993): 3300 MPa
- Flexural strength (ISO 178-1993): 130 MPa
- Flexural modulus (ISO 178 - 1993): 3400 MPa
- Elongation at breaking point (ISO 527-1 / 2-1993): 4%
- Heat Distortion Temperature (ASTM D 2583-87): 92°C
- Color wenn not colored with a dye: Natural / light pink sheen

Processing:

This product should be used at a temperature between 15°C and 30°C (workshop, product, mold) with humidity below 80%.

Normally, a gelcoat is applied in a layer thickness of 0.3 - 0.5 mm. Make sure the gelcoat does not run. The structure of the gelcoat is determined by the way of application. Brush, roller or spray will produce a different texture.

The gelcoat can be laminated after 60 minutes at 20 ° C. Ideally, you should start laminating over the gelcoat within 3 to 8 hours of applying the gelcoat. Waiting longer can weaken the bond. Before laminating, make sure that the gelcoat does not get dirty and / or dusty, nor is it too hot or exposed to direct sunlight.

No thinning is necessary. In extreme cases however, this may be done:

- Use a maximum of 6% acetone or 7% styrene for spraying.
- Use a maximum of 5% thinner for brush application as too much thinning can make the polyester porous.

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After adding and mixing a color to 1 of the components, let it rest for 20 minutes before mixing with the other component. This is to reduce air bubbles.

Shelf life

Store below 20°C. With proper storage (tightly closed, dark and cool but never too cold) can be kept for at least 6 months.

Safety

- Always work in a well-ventilated area. Use an organic gas mask in less well-ventilated areas or with larger quantities or with frequent use.
- Use liquid-tight nitrile gloves and splash goggles.
- Do not smoke or eat while using and handling this product.
- Wash hands well after use.
- For large quantities also wear an apron or wear everywhere.
- In case of contact with skin, wash thoroughly with soap
- In case of contact with eyes, rinse immediately with plenty of water (a few minutes).
- If complaints persist, consult a doctor and take the safety data sheet with you!

Use and/or do:

