

Product Description:

Moglice 1000 Semi is a moldable low friction way-liner to produce high-precision slideways with anti-stick-slip properties. The molding method allows to create complex forms and structures down to the micron without mechanical machining. It helps to reduce production times in modern production engineering. The material can either be caused to stick to the molding surface or to be released by the inclusion of a micro thin layer of release agent. The result is an exact replica of the tool surface even down to the finest surface texture.

Typical Applications:

- Low friction slideways.
- Slideways repair coatings.
- Bushings.
- Lead screw nuts.
- Complex replicated running surfaces

Properties:

- Durable machine surface with anti-stick-slip and wear resistant qualities with best coefficient of friction.
- Minuscule shrinkage or loss of dimensional stability.
- Micro fine surface molding capability.
- Resistant to movement after curing.
- The accuracy achieved can be down to a micron depending upon the setup.
- Minimal humidity absorption.
- Full contact of mating surfaces and therefore good transmittal load.
- High load carrying capacity, high damping properties.
- Resistant to many chemicals.
- Works effectively with selected lubricating oils

Shelf Life:

- 18 Months

Packing Size:

- 50-gram kit
- 100-gram kit
- 250-gram kit
- 500-gram kit
- 1,000-gram kit
- Custom kit size (available per customer request)

Application Instruction:

- **Preparation:**
Roughen adhesion areas down to a roughness of 0,3 - ,05 mm and then clean chemically (optimum: Diamant cleaner).
- **Mixing:**
Remove the resin (Part A) from its container onto a clean surface. Then pour the hardener (Part B) on top of the resin and manually mix by a spatula until there is a uniform consistency.
- **Degas:**
By spreading it crosswise and thinly onto a clean surface to remove air bubbles.
- **Application:**
The working temperature must be in the acceptable range of 68° F +/- 14° F (20° C +/- 10° C). First apply a thin adhesion layer and put it onto the surface using a spatula. Then Moglice Putty will be applied roof like without insertion air.

Technical Data	Metric	Imperial
Pot life [min]	50 Minutes (+20°C)	50 Minutes (+68° F)
Curing time [Hr]	18 Hours (+20°C)	18 Hours (+68° F)
E-Modulus DIN 53457	9,000 N/mm ²	1,305,340 psi
Compressive Strength	120 N/mm ²	17,405 psi
Hardness	85 Shore D	688 Brinell
Tensile Pressure	20 N/mm ²	2,901 psi
Adhesion Strength	15,5 N/mm ²	2,248 psi
Bending Strength	66 N/mm ²	9,573 psi
Thermal Conductivity	.899 W/mK	.52 Btu/hr*ft*F

Coefficient of Thermal Expansion	4×10^{-6} K ⁻¹	72×10^{-6} F ⁻¹
Coefficient of Friction	Info to Come	Info to Come
Temperature Resistance [Permanent]	-20°C up to 60° C	-4°F to 140° F
Temperature Resistance [Temporary]	-40°C up to 125°C	-40°F to 257°F
Viscosity	(mPas) 25000	Pas 25 x 10 ⁹
Specific Weight	2,3 g/cm ³	39 g/in ³
Mixing Ratio [by weight]	894:106 (grams)	31.53:3.73 (oz)

Technical Service:

Devitt Machinery Co. offers within the product application a comprehensive technical service, which ranges from the R&D over application consultancy, product training to the application by trained engineers. Please contact our hotline to get an individual offer.

Field Alignment Services & Training (F.A.S.T.) offers field services to perform applications of products and engineered solutions developed by Devitt Machinery Co.

Safety:

Read the appropriate safety data sheet before using the product and proceed accordingly. For questions, our service technicians are always available.