

Product Description:

Moglice FL/P 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.
- Spheres.
- Hydrostatic bearings.
- 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.
- Good adhesion with zero ageing or weathering.
- 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 (.012" - .020") and then clean chemically (optimum: Devitt cleaner).
- **Mixing:**
Pour the hardener (Part B) fully into the resin (Part A) container. Mix manually or by machine (100 rpm for 5 minutes) until the hardener is mixed well with the resin. Ensure that material adhering to the side walls and the bottom is well incorporated.
- **Degas:**
By pouring the mix in a long, thin, uninterrupted stream into a cartridge or the confined gap.
- **Application:**
Pour in the prepared cavity slowly in a long, thin stream. Aim at the lowest point to fill from the bottom to avoid the entrapment of air or pump the liquid in from the bottom of the prepared gap into a prepared inlet port using a hand pump cartridge. To achieve coverage on larger components several inlet ports may have to be established. Ensure that the application is made safely within the pot lifetime.

| 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 EN 13412:2006 | 9100 N/mm ² | 1,319,843 psi |
| Compressive Strength | 110 N/mm ² | 15,954 psi |
| Hardness | 87 Shore D | 705 Brinell |
| Tensile Strength | Info to Come | Info to Come |
| Adhesion Strength | 16 N/mm ² | 2,320 psi |
| Bending Strength | 90 N/mm ² | 13,053 psi |
| Thermal Conductivity | 1,097 W/mK | .634 Btu/hr*ft*F |
| Coefficient of Friction | Info to Come | Info to Come |
| Coefficient of Thermal Expansion | 50 x 10 ⁻⁶ K ⁻¹ | 90 x 10 ⁻⁶ F ⁻¹ |

| | | |
|------------------------------------|------------------------|-------------------------|
| Temperature Resistance [Permanent] | -20°C up to 60° C | -4°F to 140° F |
| Temperature Resistance [Temporary] | -40°C up to 125°C | -4°F up to 257°F |
| Viscosity | 25000 mPas | 25 x 109 Pas |
| Specific Weight | 2 g/cm ³ | 33 g/in ³ |
| Mixing Ratio [by weight] | 846:154 (grams) | 29.8:5.4 (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 office 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.