

■ moglice FL/P #0311

Product description

moglice FL/P is a medium-viscosity 2-component sliding surface. This is used for the production of guides, hydrostatic guides, sliding bearings and sliding surfaces. The precise moulding technology enables complex shapes and structures without mechanical processing with a precision in the μm range. In modern production technology, process times and costs can be reduced many times over. The material can be detached from the counter surface by using a micro-thin layer of Diamant release agent. The result is an exact copy of the workpiece surface.



Typical application

- Sliding coverings and guides in mechanical engineering
- Slides for punching sliders with permanent lubrication
- Sliding surfaces for surface air bearings on glass grinding machines
- Slides for transport systems for electronic elements such as waivers, displays or photovoltaics
- Guides for positioning at high speeds
- Sliding surfaces in pressure cylinders
- Sliding surfaces in lubrication-free actuators and clutch elements
- Repairs of sliding surfaces

Characteristics

- easy, medium-viscous application by casting or injection technique
- μm -precise moulding
- High dimensional stability
- High resistance to cooling emulsions, mineral and synthetic lubricants and cutting agents
- Anti-Sick-Slip behaviour
- Emergency running characteristics
- Excellent load transfer due to complete contact surfaces

Chemical resistance

For questions about chemical resistance please contact our technicians.

Pack sizes

Article	Description
V10 500g	

Custom sizes on request.

Product data condition of delivery

Hue component A (resin)	black
Component B (hardener)	clear-yellow
Storability	18 months at 5°C to 20°C
Viscosity	25000 mPas
Mixing ratio	[A : B] (gr) 85:15
Pot life	50 minutes at 20°C
Curing complete	24 hours at 20°C
for deformation	18 hours at 20°C
Processing temperature	10°C to 30°C

Product data outreacted product

Density	1.6 g/cm ³
Compressive strength	105 N/mm ² DIN EN 12190:1998
Strength	86

E-Modul	9100 N/mm ²	DIN EN 13412:2006
temperature resistance (permanent)	-20 to +60 °C	
temperature resistance (short-term)	-40 to +125 °C	
Shrinkage	less than 0,1 %	DIN EN 12617-4/2002

Storage / Shelf life

Store in original, unopened container in a dry, cool and frost-free place (+5°C to +20°C). Shelf life 18 months. Protect from direct sunlight. Higher temperatures reduce the shelf life.

Processing the adhesion surface

The guide surface to be coated is roughened to improve adhesion. The peak-to-valley height should be 0.5 mm (Rt-500 µm). The roughening can be produced with a cutter head with a large feed on a milling machine.

Mixing Procedure

To mix moglice FL/P, add Component B completely to the Component A container. Mix intensively with a drill and the DIAMANT mixing propeller (Prod. No. #0789) (max. 250 rpm for approx. 2 minutes). Scrape off any material adhering to the wall of the container with a spatula and add to the mixture. Mix again thoroughly.

Ventilate

moglice FL/P should be transferred to a clean container in a long, thin, uninterrupted stream.

Description of use

Transfer moglice FL/P into a 1K empty cartridge and inject with this through an inlet channel into the prepared, sealed cavity. To avoid the influence of air, fill the cavity from the deepest point. Alternatively, the moglice FL/P can be poured onto a cast surface. Use a spatula to support the even flow. After curing, work the surface.

Qualification and Service

To ensure the best possible quality as well as error-free application, we offer the following services:

- Consultation by phone and/or at your site
- Site supervision and monitoring of the work on site
- Complete execution of the work by our experienced application technicians

Disposal

Unused residual material from the cans can be disposed of normally when mixed in the correct ratio and fully cured (EAKV170203). Unmixed material must be disposed of as chemical waste /EAKV 080111). When booking the Diamant Service Team, waste will be disposed of by us.

Safety data sheet

Please read the corresponding safety data sheet before processing the product. Safety data sheets are available daily on request via info@diamant-polymer.de or by phone at +49-2166-98 360. DIAMANT guarantees the product characteristics as long as they are stored and used according to the specifications listed here. DIAMANT assumes no responsibility for the processing of the material. Our technicians will be happy to answer any further questions you may have.

Accessories / Processing equipment

#1354 Release agent, liquid#1355 Release agent, spray 500 ml#1417 Cleaner, liquid#1534 Cleaner, spray 500 ml#78 Spatula, DIAMOND green#0789 Mixing propeller#1573 1C empty cartridge 320 ml#1572 1C empty cartridge 160 ml#1574 1C cartridge press (manual) for empty cartridge 320 / 160 ml#1579 PE hose, clear, D= 8 mm#1577 Shut-off valves, D = 8 mm#1578 Screw-in hose nipple R1/4"#7010 Foam rubber sealing tape HxW 10 x 15 mm#1580 Foam rubber sealing tape HxW 4 x 9 mm

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