



OWL WATERPROOFING SOLUTIONS

OWL PU MASTIC

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TECHNICAL DATA SHEET

Polyurethane Joint Sealer Mastic

Product Description

Owl PU Mastic is a polyurethane based single component dynamically flexible polyurethane mastic designed for caulking joint-sealing adhesive.

Product Information

Chemical Base	Flexible, single-component polyurethane
Packaging	300 ml cartridges 600ml sausages
Colour**	Grey
Shelf Life	12 months from the date of production

Main Uses

Owl PU Mastic is used for:

- Expansion and control joints in concrete, masonry, or precast panels.
- Sealing around windows, doors, and cladding panels where weather resistance is required.
- Interior & exterior joints: For walls, floors, and roofing areas that need a watertight, flexible seal.
- For non-porous materials where strong adhesion and elasticity are necessary.

Advantages

- Easy to apply
- Weather-resistant
- Withstands continuous movement
- Resistant to water, heat, and frost
- Retains mechanical properties within a temperature range of -25°C to +90°C
- Offers strong adhesion to most construction materials
- Resistant to detergents, oils, fuels, and seawater

Consumption

Consumption depends on volume of the joint or crack to be sealed.

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Use cartridges or sausages within 24 hours of opening.

Do not apply when the temperature is below 5 °C. In cold weather, store the packages at around 20 °C before use.

Avoid using on substrates where moisture-vapor transmission is present, as this may cause bubbling within the sealant.

Technical Data*

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane	
Elongation at Break	≥ 600%	DIN 53504
Modulus of elasticity (at 100%)	0.40 N/mm ²	DIN 53504
Tensile Strength	1.2 ± 0.2 N/mm ²	DIN 53504
Hardness (Shore A Scale)	15-25	DIN 53505, ASTM D 2240



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Application Temperature

5° C to 35° C

Inhouse Lab

Cure Rate (25°C; 50% Relative Humidity)

2 mm/ 24 hour

Inhouse Lab

Chemical properties



The product is a single-component, thixotropic sealant that can be easily applied using a manual or pneumatic gun. It cures through the moisture in the air, ensuring bubble-free curing without excessive joint expansion and maintaining its original volume without shrinkage. Once cured, it can be painted over and provides permanent elasticity, delivering long-lasting flexibility. It is highly resistant to weather conditions and water, making it suitable for both interior and exterior applications.

Application:

Surface Preparation:

1. **Remove Contaminants & Eliminate Loose Debris:**

Ensure all oils, grease, and other pollutants that could affect adhesion are cleaned from the surface. Clear any excess materials or debris from the surface.

2. **Concrete Surfaces:**

Ensure concrete is sturdy, fully cured for at least 28 days, and the moisture content does not exceed 5%.

3. **Surface Testing:**

Before applying the mastic, test a small section for proper adhesion, color compatibility, and chemical resistance.

Tools should be cleaned with alcohol or acetone before the sealant fully cures. Once cured, mechanical abrasion is required for removal.

Movement Joint Sealing for Roof Waterproofing:

1. **Seal the Bottom of the Joint:**

Use Owl PU Mastic Joint-Sealant to seal only the bottom of the joint.

2. **Apply Lava 20 Layer:**

Brush a 200mm wide strip of Lava 20 centered over the joint.

3. **Press Polyester Fabric/ Matting:**

Use a tool to press the polyester fabric/ matting into the Lava 20 layer until it is well saturated, ensuring the joint is completely covered.

4. **Final Seal with Mastic:**

Apply Owl PU Mastic sealant to the remaining exposed area of the joint and allow it to cure for 12 hours.

Priming

Adhesion Testing: If the adhesion test shows weak adherence, priming is necessary.

- **Absorbent Surfaces:** For surfaces such as concrete, screed, and wood, use Lava 20 Fast Primer to improve adhesion.
- **Non-Absorbent Surfaces:** For surfaces like metal and ceramic tiles, use Lava 20 Epoxy Primer to ensure proper bonding.



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Sealing

1. Insert Joint Filler:

Press a flexible, non-adhesive polyethylene joint filler into the joint after the primer has dried. Ensure the filler has no holes to prevent air bubbles in the joint.

2. Apply Mastic:

Use Owl PU Mastic with a pneumatic or hand-held special pistol (maximum pressure: 3.5 kg) to fill the joint. Take care to avoid trapping air/ bubbles during application. Use a joint nail or putty knife to smooth the mastic. Apply protective strips to create a clean, professional finish.

Storage

Product should be stored in dry and cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature: 5° to 35° C. Products should remain in their original, unopened containers, bearing the manufacturer's name, product designation, batch number and application precaution labels.

Safety measures

Owl PU Mastic contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet.
PROFESSIONAL USE ONLY

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice. *All values represent typical values and are not part of the product specification.