



OWL WATERPROOFING SOLUTIONS

Owl PU Mastic

TECHNICAL DATA SHEET

Polyurethane Joint Sealer with Rapid Cure

Product description

Owl PU Mastic is a thixotropic dynamically flexible polyurethane patching and joint-sealing adhesive.

PRODUCT INFORMATION

Chemical Base Low-modulus, single-component polyurethane elastomer, healed by ground and air moisture.

Packaging 0,600ml sausage

Colour** Grey, White

Shelf Life 12 months from date of production

Advantages

- Easy to use
- Holds its mechanical qualities throughout a temperature range of - 30° C to +90° C
- Offers outstanding adhesion to the majority of construction materials
- Resistant to detergents, oils, fuels, saltwater, water, heat and frost
- Resistant to deterioration
- Tolerant of continuous movement

Main Uses

Owl PU Mastic is used for:

- Joints between timber, metal, aluminum, or PVC frames and masonry
- Extension & caulking joints in nearly all construction materials
- Joint sealing of interior/exterior movement joints
- Mastic for patching cracks

Consumption

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

Technical Data*

| PROPERTY | RESULTS | TEST METHOD |
|--------------------------------------|--|------------------------|
| Composition | Polyurethane mastic (pre-polymer) | |
| Elongation at Break | 600% | DIN 53504 |
| Modulus of elasticity (at 100%) | 0.30 N/mm ² | DIN 53504 |
| Tensile Strength | 1.2 N/mm ² | DIN 53504 |
| Hardness (Shore A Scale) | 15-25 | DIN 53505, ASTM D 2240 |
| Application Temperature | 5° C to 35° C | Inhouse Lab |
| Skin formation time | 15 min (at 23oC, 50%RH) | Inhouse Lab |
| Polymerized thickness after 24 hours | 3 mm (at 23oC, 50%RH) | Inhouse Lab |
| Resistance to flow at 23oC | <3mm | ISO 7390 |
| Resistance to flow at 50oC | <3mm | ISO 7390 |
| Chemical Properties | Good resistance against water, cleaning agents, and accidental spray with oils, hydrocarbons, acidic and basic solutions (10%). Due to the sensitivity of polyurethane to UV rays, light shades change colour. This change in appearance does not modify their mechanical properties or leak tightness. | |



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Application

Surface Preparation

Oils and other pollutants that could negatively impact the mastic's adherence must be removed from the surface. Eliminate all extra stuff. Concrete surfaces need to be sturdy and dry (at least 28 days). Optimum moisture content is 5%. In terms of adhesiveness, coloration, and chemical compatibility, users must ensure that the mastic is appropriate for the surface (test a section first).

Making the joint:

Correctly size the joint. We recommend a width between 10 and 30 mm. The Width/ depth ratio of the joint should be about 2:1.

Movement joint sealing for Roof waterproofing purposes:

Only the bottom of the joint should be sealed with Owl PU Mastic Joint-Sealant. Apply a stripe layer of Lava 20, 200mm wide and centered over the joint, using a brush. With the aid of an appropriate tool, press the polyester FABRIC into the joint until it is well saturated and the joint is completely covered from the inside. The fabric should then be completely saturated with Lava 20. After that, insert a polyethylene cord with the appropriate diameters into the joint and press it firmly on the soaked fabric there. Apply Owl PU Mastic sealant to the joint's remaining open region and let it cure for 12 hours.

Priming

If an adhesion test reveals weak adherence, priming is required. Prime absorbent surfaces such as concrete, screed, and wood with Lava 20 Quick Primer in this scenario.

Sealing

Press a flexible, non-adhesive joint filler (polyethylene cable) into the joint once the primer has dried. To prevent bubbles from forming in the joint, the joint filler needs to be devoid of any holes. Apply Owl PU mastic with pneumatic or hand-held special pistols (maximum required pressure: 3.5 kg). Avoid trapping air when applying. Use a joint nail or putty knife to smooth. Use protective strips to provide a superior finish.

Apply the mastic in one motion to narrow joints. Apply the mastic in three locations for very wide joints: the first two should be on the joint's edges, and the third should be on the filler. Clean up with some soapy water. Being sure to avoid forming air bubbles, press the mastic firmly on the joint filler and the edges. Take off the safety barriers. After polymerization is finished, painting is possible. After performing a sectional test, use acrylic or vinyl dispersion paints.

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° -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 or written, is given in good faith and reflects 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 may guarantee only that our products are compliant with their technical specification; correct application of our products therefore falls entirely within your scope of liability and Users are responsible, in any case, for complying with local legislation and for obtaining any required approvals or authorizations, when necessary, either for their purchase and/or for their use. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. 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. **: The applied sealant might yellow and/or fade upon UV exposure.
