



OWL WATERPROOFING SOLUTIONS

OWL UNIVERSAL 2-PART EPOXY PRIMER

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TECHNICAL DATA SHEET

Water Based Epoxy Primer

Product Description

Owl Universal 2-Part Epoxy Primer is a transparent, durable epoxy primer designed for waterproofing, sealing, and floor coating applications. It can be applied to non-absorbent, semi-absorbent, and absorbent surfaces. Verified as a reliable barrier to water vapor, the primer hardens through the chemical bonding of its two components.

Product Information

Chemical Base	2 -component water based epoxy primer
Packaging	3+1 kg metal pails
Colour	Pale yellow
Shelf Life	12 months from the date of production

Main Uses

Owl Universal 2 Part Epoxy Primer is primarily designed to serve as a primer and vapor barrier for polyurethane waterproofing coatings, polyurethane joint sealants, and polyurethane or epoxy floor coatings. It is compatible with a wide range of surfaces, including non-absorbent, semi-absorbent, and absorbent materials, such as:

- Concrete or polished concrete
- Wood
- Various metals
- Asphalt
- Bituminous membranes
- Ceramic tiles
- Glass
- Aged acrylic coatings, etc.

It can also function as a tack coat when required.

Advantages

- Easy to apply with either a roller or brush
- Low odour formulation
- Provides strong adhesion to both absorbent and non-absorbent surfaces
- Can be applied to damp surfaces without compromising adhesion
- Resistant to standing water
- Water-dilutable
- Offers high tensile strength and impact resistance
- Resistant to extreme temperatures, including heat and frost
- Prevents dust formation
- Chemical resistant
- Acts as a vapor barrier when applied at the specified rate (Class III).

Consumption

- 0.100 - 0.200 kg/m² applied in one or two coats as a primer
- 0.600 kg/m² applied in three coats as a primer and vapor control barrier

These coverage rates are based on practical application using a roller on a smooth surface in ideal conditions. Factors like surface texture, temperature, humidity levels, application method, and the desired finish can influence the actual product usage.



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Technical Data

PROPERTY	RESULTS	TEST METHOD
Composition	Epoxy resin + Hardener. Water based	
Mixing Ratio	A:B = 3:1	
Adhesion to aluminum	>2 N/mm ²	EN 1542
Adhesion to concrete	>4.5 N/mm ²	EN 1542
Hardness (Shore A Scale)	>95	ASTM D 2240
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Service Temperature	-30°C to +90°C	Inhouse lab
Pot Life	45-50 min	Conditions: 20°C, 50% RH
Overcoating time	6-12 hours	Conditions: 20°C, 50% RH
Final Curing Time	7 days	Conditions: 20°C, 50% RH
Application Temperature	10°C to 35°C	Conditions: 20°C, 50% RH

Certifications

EN1504-2: Concrete surface protection product (0.2 kg/m²). Included in ETA21/0248 IETcc (EAD 030350-00-0402).



Application

Surface Preparation

Proper surface preparation is key for achieving a long-lasting and high-quality finish.

The concrete must be free from contaminants like dust, oils, fats, and organic materials that could affect primer adhesion.

Moisture content: The moisture content of the concrete should not exceed 8%. The substrate should have a compressive strength of at least 25 MPa and a cohesive bond strength of at least 1.5 MPa.

Surface cleaning: Remove old coatings, dirt, and any loose material with a grinding machine. Smooth out any surface irregularities. Thoroughly clean the surface of all dust and debris after grinding. For other substrates, contact technical support for guidance.

Caution: Do not use metal-ball blasting machines, as they can damage the concrete's cohesion and reduce its stability.

Mixing

- Component mixing:** Mix Owl Universal 2-Part Epoxy Primer Component A & B using a low-speed mechanical stirrer for 3-5 minutes, following the specified ratio. Ensure the components are fully combined, paying special attention to mixing around the walls and bottom of the container until the mixture is homogeneous.
- Dilution:** Add 15-25% clean water to the mixture to adjust viscosity as needed.

Priming

Application: Use a roller or brush to apply the diluted Owl Universal 2-Part Epoxy Primer, ensuring even coverage. After 6-12 hours, but no later than 24 hours, and while the primer is still slightly tacky, proceed with applying the Lava20 liquid rubber waterproofing system or Owl PU Mastic joint-sealant.



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Pot life: Ensure the primer is used within its pot life for best results.

Temperature warning: Do not apply Owl Universal 2-Part Epoxy Primer, if the ambient or ground temperature is below 10°C.

Recommendations

Fragile surfaces: For weak or porous surfaces like lightweight concrete or porous cement screeds, apply two coats of Owl Universal 2-Part Epoxy Primer.

Optimal conditions: The best results are achieved when the temperature during application and curing is between 5°C and 35°C. Low temperatures slow the curing process, while high temperatures accelerate it. High humidity may affect the finish.

Storage

Pails must be stored in cool, dry areas. Ensure the material is protected from moisture and direct sunlight. The storage temperature should be maintained between 5°C and 35°C. Keep the products in their original, sealed containers with the manufacturer's name, product identification, batch number, and safety instruction labels intact.

Safety Measures

Owl Universal 2 Part Epoxy Primer includes amines and epoxy resins. Please review the manufacturer's documentation and read the Safety Data Sheet. Professional Use Only.

Our technical advice, whether provided verbally or in writing, is offered in good faith and reflects our current knowledge and experience with the products. When using our products, it is essential to carry out a thorough, project-specific evaluation in each case to ensure that the product and/or application method meets the necessary requirements. We can only guarantee that our products adhere to their technical specifications; the proper application of the products is entirely your responsibility. Users must comply with local regulations and obtain any necessary permits or authorizations for both the purchase and use of the products. The values in this technical data sheet are provided as examples and should not be considered specifications. For specific product details, please contact our technical department. The latest edition of the technical data sheet replaces all previous versions and renders them obsolete, so always ensure you have the most up-to-date guidelines at hand.

*Please note that all values are typical and do not form part of the product specification. The applied primer may experience yellowing or fading when exposed to UV light.