

OWL WATERPROOFING SOLUTIONS

Lava 20 Clear Top Coat

Translucent Liquid Polyurethane Waterproofing Coating

Product Description

Lava 20 Clear Top Coat is a long-lasting

polyurethane waterproofing coating that is translucent & tough. Its high-tech coating is transparent and elastic even after aging and is UV-stable, non-yellowing, weather-stable, alkali and chemical resistant.

Lava 20 Clear Top Coat shields and waterproofs natural surfaces from acid rain, fog, frost, and water penetration. Plastic surfaces that have oxidized and aged appear more transparent after being coated with Lava 20 Clear Top Coat. Damaged glass surfaces are waterproofed by it.

For sand carpet floor coating applications, Lava 20 Clear Top Coat is also utilized as a transparent binder resin, particularly for external applications where flexibility and UV stability are required.

Lava 20 Clear Top Coat is using a unique curing system (moisture triggered), and unlike other similar systems it does not react with moisture (moisture-cured) and does not form bubbles

PRODUCT INFORMATION

Chemical Base	Cold-curing, solvent-based, single- component aliphatic polyurethane
Packaging	5 or 20 kg metal pails
Colour	Transparent

9 months from date of production

Main Uses

Shelf Life

Waterproofing of:

- Decks and patios
- Wood
- Preservation of Natural Stones
- Porcelain Surfaces
- Glass and Crystal
- Opaque Plastics (like Polyacrylate and Polycarbonate)Sand carpet outdoor floor sealing applications using adhesive resin

Advantages

- Easy to use (roller or airless spray);
- A flawless, jointless membrane is formed when applied.
- UV stable
- Resistant to raw sewage and frost;
- The waterproofed surface can be used for domestic (light) foot traffic

TECHNICAL DATA SHEET

- Resistant to detergents, oils, seawater, and household chemicals
- Provides water vapor permeability, allowing the surface to breathe
- Excellent heat resistance, preventing it from softening
- Excellent weather resistance
- Excellent adhesion to ceramic tiles, and excellent adherence to glazed surfaces.

Consumption

0,800 - 1,200 kg/m² in two or three layers

This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature and application method can alter consumption.



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Technical Data* PROPERTY RESULTS TEST METHOD Polyurethane high-solids pre-polymer Composition Elongation at Break 220% DIN EN ISO 527 >20 N/mm ² Tensile Strength DIN EN ISO 527 Gloss retention after 2000h of accelerated aging Good DIN 67530 (DIN EN ISO 4892-3, 400 MJ/m2) Surface chalking after 2000h of accelerated aging No chalking observed. ASTM G154 Chalkina arade 0 Hardness (SHORED Scale) 25 ASTM D 2240 Resistance to Water Pressure No Leak (1m water column, 24h) **DIN EN 1928** Permeability to CO₂(measured in CE system) 0.39g/m²d EN 1062-6 Water vapour permeability (measured in CE system) 5.15g/m²d EN ISO 7783 0.008 kg/m².h^{0.5} Capillary absorption and permeability to water (measured EN 1062-3 in CE system) Adhesion to absorbent ceramic tile >2,0 N/mm² (ceramic tile failure) EN 1542 Hydrolysis (5% KOH, ?days cycle) No significant elastomeric change Inhouse Lab Inhouse Lab Service Temperature -40°C to +90°C Tack Free Time 6-8 hours Light Pedestrian Traffic Time 24 hours Conditions: 20°C, 50% RH Final Curing time 7 days Chemical Properties Good resistance against detergents, segwater and oils.

Certifications

EN1504-2: Surface protection for concrete. (0.8kg Lava 20 Clear Top Coat)

Application as a Transparent Waterproofing Coating. Surface Preparation

For the best quality and longevity, careful surface preparation is necessary. The surface must be free of any pollution that could compromise the membrane's adhesion and be clean, dry, and sound. No more than 5% of the total weight should be moisture. At least 28 days must pass before new concrete constructions are ready. It is necessary to remove dust, organic materials, grease, oils, and old coatings.

ATTENTION: Surfaces with trapped moisture (e.g. trapped moisture under tiles) must be left to dry completely (max. 5% moisture), before the application of Lava 20 Clear Top Coat.

WARNING: Do not apply Lava 20 Clear Top Coat on ceramic surfaces with ascending nitric salts in the joints, without suitable pretreatment. Do not apply Lava 20 Clear Top Coat on surfaces treated in the past with active silane, siloxane, silicon or other waterrepellents, because of expected poor adhesion. We recommend an adhesion test, if circumstances and surface history are not clear. On marble and granite please perform an adhesion test, to ensure that adhesion is proper.

Repair of cracks and joints:

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results. Clean concrete cracks, hairline cracks, expansion joints and control joints of dust, residue or other contamination. Prime locally with Lava 20 Primer and allow 2-3 hours to dry. Fill all prepared cracks and joints with Owl PU Mastic sealant. Allow to cure.



Transparent waterproofing membrane

Apply Lava 20 Clear Top Coat over the primed surface, spreading it out using a roller or a trowel with the appropriate teeth until the entire area is coated. Apply a second coat of Lava 20 Clear Top Coat with a roller or brush after 12 hours, but no later than 18 hours. Apply a third coat of Lava 20 Clear Top Coat for improved waterproofing and durable effects.

Attention: Do not apply Lava 20 Clear Top Coat in layers that are thicker than 1 mm of dry film. The ideal temperature range for application and cure is between 5° C and 35° C. High temperature accelerates curing while low temperature delays it. Excessive humidity could have an impact on the finish.

WARNING: While wet, Lava 20 Clear Top Coat and/or Lava 20 SYSTEM are slippery. Sprinkle appropriate aggregates onto the stillwet coating to create an anti-slip surface to prevent slickness on rainy days. To learn more, kindly get in touch with our R+D Department.

For best results, the temperature during application and cure should be between 5°C and 30°C. Low temperatures retard cure while high temperature speeds up curing. High humidity may affect the final finish and might create surface pinholes/bubbles.

Storage Conditions: Lava 20 Clear Top Coat pails should be stored in dry and cool rooms. Protect the material against moisture and direct sunlight. Storage temperature: 5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Lava 20 Clear Top Coat contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data Sheet.

PROFESSIONAL USE ONLY

Safety measures

Our technical advice for use, whether verbal or written, 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 may guarantee only that our products 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 sinvalid. 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.