OWL WATERPROOFING SOLUTIONS

Date: 15. 12. 2022 – V.23
TECHNICAL DATA SHEET

LAVA 20 FAST PRIMER

Solvent Based, Quick Drying, Polyurethane Primer

Product Description

Lava 20 Fast Primer is a transparent durable, deeply penetrating, quickly drying, and rapidly curing polyurethane primer.

Product Information

Chemical Base	Ground and air moisture-cured single-component polyurethane solvent-based primer.
Packaging	1, 4 kg metal pails
Colour**	Brown - yellow
Shelf Life	12 months from the date of production

Consumption

The coverage rate of **0.200 kg/m²** applies to a single layer when applied with a roller on a smooth surface under ideal conditions. Variables such as surface porosity, temperature, humidity, application technique, and the desired finish can affect the actual consumption.

Main Uses

Mostly used on porous surfaces such as concrete, masonry, gypsum, and timber as a primer for polyurethane waterproofing varnishes and polyurethane joint adhesives.

Advantages

- → Offers high tensile and impact strength.
- → Easy to apply (roller or brush).
- → Dries quickly.
- → Penetrates deeply.
- → Anchors well to porous surfaces
- → Provides resistance to excessive moisture.
- → Heat and frost resistant.
- → Prevents the formation of dust.
- → Chemically resistant.

Storage

- → Pails should be kept in cool, dry areas, away from moisture and direct sunlight.
- → The recommended storage temperature is between **5°C and 35°C**.
- → Ensure products are stored in their original, sealed containers, clearly labeled with the manufacturer's name, product designation, batch number, and application precaution details.

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Technical Data*

Property	Results	Test Method
Composition	Polyurethane pre-polymer. Solvent-based	
Adhesion to concrete	>2.5 N/mm^2 (concrete failure)	EN 1542
Resistance to water pressure	No leak (1m water column, 24h)	DIN EN 1928
Service temperature	-30°C to +90°C	Inhouse lab
Application temperature	5°C to 35°C	Conditions: 20°C, 50% RH
Tack free time	1 hour	Conditions: 20°C, 50% RH
Overcoating life	<1 hour	Conditions: 20°C, 50% RH
Final curing time	7 days	Conditions: 20°C, 50% RH

Application

Surface Preparation

1. **Clean the Surface:**
   Make sure the surface is clean, dry, and in sound condition. Remove any pollutants such as dirt, grease, oils, organic matter, or old coatings that may compromise the membrane's adhesion.
2. **Check for Moisture:**
   The moisture content of the surface should not exceed 5%. You can use a moisture meter to confirm this.
3. **Test Substrate Strength:**
   The substrate should have an impact strength of at least 25 MPa and a viscous bond strength of at least 1.5 MPa to ensure it can hold the waterproofing system.
4. **Allow New Concrete to Cure:**
   If you are working on new concrete structures, ensure they have cured for at least 28 days before applying any primer or membrane.
5. **Grind the Surface & Remove Grinding Dust:**
   Use a grinding machine to remove any loose or old coatings, grime, grease, oils, and other contaminants. Grinding will also smooth out any imperfections on the surface. After grinding, thoroughly clean the surface to remove any dust or loose fragments that could prevent proper adhesion of the membrane.

WARNING: Avoid Water and Metal-Ball Blasting: Do not wash the surface with water, as this can affect the surface's readiness for the primer. Also, avoid using metal-ball blasting equipment since the impact can damage the cohesiveness and durability of the concrete.

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Priming

1. **Apply Lava 20 Fast Primer:**
   Using a roller or brush, evenly apply Lava 20 Fast Primer to cover the entire surface. Make sure all areas are fully coated.
2. **Consider Airless Spraying:**
   If available, you can use an airless spray system to apply the primer, which will save labour and time.
3. **Monitor Tacky Primer Stage:**
   Once the primer is applied, wait until it becomes slightly tacky. This is the optimal moment to move to the next step.
4. **Apply Polyurethane Coating/Sealant:**
   While the primer is still tacky, apply the polyurethane coating or joint sealant to ensure proper adhesion between the layers.

RECOMMENDATION: For surfaces that are extremely brittle, such as lightweight concrete or highly porous cement screed, it is advised to apply two coats of Lava 20 Fast Primer.

Safety Measures

Lava 20 Fast Primer contains isocyanates. See information supplied by the manufacturer. Flammable. Please study the Safety Data Sheet. **PROFESSIONAL USE ONLY.**