



**OWL**  
THE WISE CHOICE

# Waterproofing

Latest generation waterproofing products



LAVA 20



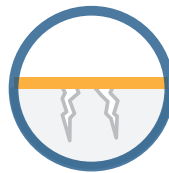
## TOTAL WATERPROOFING

OWL products guarantee the highest quality waterproofing both with negative and positive pressure.



## HIGH ELASTICITY

OWL waterproofing systems guarantee an extraordinary elasticity to resist movements and dilatations of the substrate.



## CRACK BRIDGING ABILITY

OWL waterproofing products can fill cracks and remain flexible on top of all substrates in all temperatures.



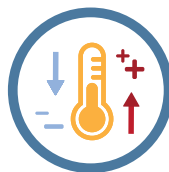
## FAST APPLICATION

OWL range of products are fast to apply. Fast drying, no risk related to sudden rain or low temperatures, no reinforcement mesh needed.



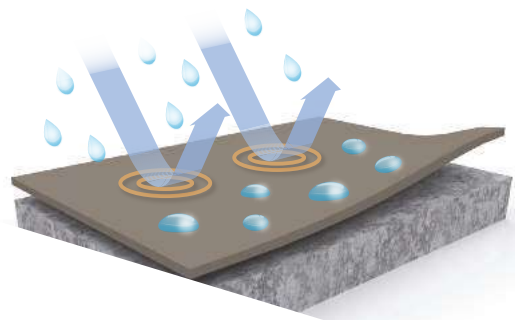
## CHEMICAL RESISTANCE

OWL products have an excellent resistance to acids and other chemicals making it an ideal choice for many applications.



## THERMAL SHOCK RESISTANCE

OWL products are suitable in any weather condition, unlike other systems OWL can resist excessive thermal shocks and movement.





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# LAVA 20

## Multi purpose waterproofer

Lava 20 is a single component polyurethane waterproofing system. The product can be applied in temperatures down to 0°C.

Rain resistant within 30 minutes



### Description

LAVA 20 is a rapidly curing, single component polyurethane liquid waterproofing membrane, which is UV colour stable and can be applied in one coat.

LAVA 20 cures to form a defect free waterproof membrane with excellent mechanical and elastomeric properties. LAVA 20 can be used on many different roof substrates and is ideal for use during winter months as it can be applied at temperatures down to 0°C.

LAVA 20 eliminates the drawbacks of multilayer waterproofing systems and reduces labour costs.

### Features & Benefits

- 10 year life expectancy with just one coat!
- Cures in 2 hours at 20°C.
- Bubble and defect free membrane.
- Can be used on many different roof substrates.
- Reinforcement layers are not required.
- Excellent weather and UV resistance - rain resistant within just 30 minutes at 20°C.
- UV colour stable.
- Excellent thermal resistance, the product never turns soft. Recommended service temperature 80°C, max shock temperature 200°C.
- Cold resistance: LAVA 20 remains flexible down to -40°C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- Good chemical resistance.
- LAVA 20 breathes so there is no accumulation of moisture under the coating.

**Not recommended for unsound or structurally deteriorated substrates**

### Packaging

2kg, 5kg and 15kg cans

### Application

**All substrates must be primed with LAVA Prime 20 prior to application of the LAVA 20 waterproofing system.**

- For a 10 year life expectancy, apply in one coat at a minimum 1.8kg/m<sup>2</sup> by brush or squeegee.
- For a 20 year life expectancy, apply in 2 coats of 1.5kg each by brush or squeegee.

### Waterproofing and protection of

- Roofs pitched or flat.
- Gypsum and cement boards.
- Polyurethane insulation foams.
- Verandas and balconies with light foot traffic.
- Lightweight roofing made of metal or fibrous cement.
- Felt or asphalt membranes.
- TPO & EPDM membranes.
- Concrete, timber, slate, grp, etc.
- Podium decks.
- Planting boxes.

### Cleaning

Clean tools and equipment with paper towels and then use PU Solvent.

### Shelf Life

Can be kept for minimum 12 months in the original unopened cans in dry conditions and at temperatures of 5-25°C. Once a can has been opened, use as soon as possible.

### Precautions

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.





Technical Specifications  
In liquid form (before application)

90% dry matter in xylol.

| Property                               | Units              | Method                                     | Specification |
|----------------------------------------|--------------------|--------------------------------------------|---------------|
| Viscosity (BROOKFIELD)                 | cP                 | ASTM D2196-86, at 25°C                     | 3500-5500     |
| Specific weight                        | gr/cm <sup>3</sup> | ASTM D1475 / DIN 53217 / ISO 2811, at 20°C | 1.3 - 1.4     |
| Flash point                            | °C                 | ASTM D93, closed cup                       | 42            |
| Tack free time at 77°F (25°C) & 55% RH | Hours              | -                                          | 2-3           |
| Recoat Time                            | Hours              | -                                          | 6-48          |

The cured membrane

| Property                                                                          | Units                                   | Method                            | Specification        |
|-----------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|----------------------|
| Service temperature                                                               | °C                                      | -                                 | -40 - 80             |
| Max. temperature short time (shock)                                               | °C                                      | -                                 | 200                  |
| Hardness                                                                          | Shore A                                 | ASTM D2240 / DIN 53505 / ISO R868 | 70                   |
| Tensile strength at break at 23°C                                                 | kg/cm <sup>2</sup> (N/mm <sup>2</sup> ) | ASTM D412 / EN-ISO-527-3          | 65 (6,5)             |
| Percent elongation at 23°C                                                        | %                                       | ASTM D412 / EN-ISO-527-3          | > 400                |
| Water vapour transmission                                                         | gr/m <sup>2</sup> . hr                  | ASTM E96 (Water Method)           | 0.8                  |
| Tensile set (after 300% elongation)                                               | %                                       | ASTM D412                         | < 3%                 |
| QUV Accelerated Weathering Test (4hr UV, at 60°C (UVB Lamps) & 4 hr COND at 50°C) | -                                       | ASTM G53                          | Passed (2,000 hours) |





# OWL

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## PU Mastic

### Fast curing joint sealant

OWL PU Mastic is a fast curing joint sealant, general purpose adhesive for sealing joints in:

- Metal frames.
- Aluminium windows and panels
- Glass
- Granite & Marble
- Flooring applications

Description

OWL PU MASTIC is a fast curing joint sealant, general purpose adhesive that has been specifically formulated to contain both PU and silylated PU technology, thus giving rise to a sealant, which includes the best properties of both technologies. The material has been modified in order to give enhanced thixotropic properties. OWL PU MASTIC cures rapidly through reaction with atmospheric humidity to produce a sealant with excellent early grab adhesion even on substrates traditionally problematic for PU sealants, e.g. aluminum, steel, polycarbonate etc. Additionally, the sealant has been modified in order to have extrusion profile identical to Hybrid PU or MS technology.

Recommended For Sealing joints in:

- Metal frames.
- Aluminium windows and panels
- Glass
- Granite & Marble
- Flooring applications

Limitations

Not recommended for direct application on unsound substrates: In this case the substrate must be primed with OWL LAVA PRIME, which will reinforce the concrete and produce a strong durable substrate for sealant application. Very porous substrates, dusty surfaces or poorly compacted concrete must have their porous bond area surfaces thoroughly sealed to avoid the possibility of air bubbles being blown into the uncured sealant if the substrate temperature rises.

Features & Benefits

- Excellent adhesion on almost any type of surface, with or without the use of special primers.
- Excellent extrusion, tooling and storage stability over wide range of climatic conditions.
- Excellent chemical resistance, suitable for sealing joints in swimming pools and chemically treated water.
- Microorganism and fungus resistant
- Application under water immersion possible
- Excellent heat resistance, suitable for application where exposure to temperatures > 60°C take place.
- Resistance to cold: The sealant remains elastic even down to -40°C.

Application Procedure

Clean joint thoroughly, and ensure that no oil, grease and wax contaminants, silicone remains are present. For many applications, primer is not required. In the case of application on very porous substrates, bond area surfaces thoroughly to avoid the possibility of air bubbles being blown into the uncured sealant if the substrate temperature rises. The recommended primer is OWL LAVA PRIME.

To joints in concrete or masonry structures.

Apply backing material such as open cell polyurethane or a closed cell polyethylene backing rod. Although both types of backing rod are recommended care must be taken when using the closed cell polyethylene rod that the outer skin not be punctured as in rising temperature conditions it may cause bubbling. Backing rod application is important as it ensures that the correct width to depth ratio is achieved provides a firm backing against which the sealant can be tooled off.

Slide the sealant into the applicator gun, cut off the very end of the sealant packaging and fit the gun with the nozzle that has been cut to deliver the right bead size.



Extrude the sealant into the joint ensuring that no air is trapped in the joint. Wide joints will require more than one pass of the application gun to make sure that sealant is in full contact with the sides and bottom of the joint. Tooling is recommended immediately after the application of sealant.

The ratio width to depth should be 2:1 subject to a minimum depth of 10mm.

Consumption

|                                 |     |      |      |      |      |
|---------------------------------|-----|------|------|------|------|
| Linear meters per 600cc sausage |     |      |      |      |      |
| Width                           | 5mm | 10mm | 15mm | 20mm | 25mm |
| Depth                           |     |      |      |      |      |
| 5mm                             | 24  | 12   |      |      |      |
| 10mm                            |     |      | 4    | 3    | 2.4  |
| 15mm                            |     |      |      |      | 1.6  |

Packaging

600cc sausage  
300cc cartridge

Shelf Life

12 months minimum in the original packaging when stored in dry places and at temperatures of 5-25°C. Once opened, use as soon as possible.

Technical Specifications

| Property                                                                      | Units          | Method                            | Specification                  |
|-------------------------------------------------------------------------------|----------------|-----------------------------------|--------------------------------|
| Tack free time @ 77°F (25°C) & 55% RH                                         | Hours          | -                                 | 1.5 - 2.5                      |
| Cure Rate                                                                     | mm/day         | -                                 | 3 - 4                          |
| Service temperature                                                           | °C             | -                                 | -4 - +80                       |
| Hardness                                                                      | Shore A        | ASTM D2240 / DIN 53505 / ISO R868 | +/- 45                         |
| Modulus at 100% elongation                                                    | N/mm2          | ASTM D412 / EN-ISO 527-3          | 0.7                            |
| Elongation                                                                    | %              | ASTM D412 / EN-ISO 527-3          | > 700                          |
| QUV Accelerated Weathering Test (4hr UV @ 60°C (UVB lamps) & 4hr COND @ 50°C) | -              | ASTM G53                          | Passed                         |
| Thermal resistance (100 days @ 80°C)                                          | -              | EOTA TR011                        | (after 2,000hr)<br>Passed      |
| Toxicity                                                                      | -              | -                                 | No restriction after full cure |
| Resilience                                                                    | %              | DIN 52458                         | > 80                           |
| Hydrolysis (8% KOH, 15 days @ 50°C)                                           | -              | -                                 | No elastomeric property change |
| Hydrolysis (H2O, 30 days cycle 60-100°C)                                      | -              | -                                 | No elastomeric property change |
| HCl (PH = 2, 10days @ RT) -                                                   | -              | -                                 | No elastomeric property change |
| Adhesion o concrete                                                           | kg/cm2 (N/mm2) | ASTM D4541                        | > 20 (> 2)                     |



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## LAVA DETAIL 20 Reinforced

Multi purpose waterproofer

Lava Detail 20 Reinforced is a single component polyurethane waterproofing system. The product can be applied in temperatures down to 0°C.

Rain resistant within 30 minutes



Description

LAVA DETAIL 20 is a thixotropic and fibre-reinforced single component polyurethane liquid membrane used for waterproofing and protection of roof detail structures. Due to its unique formation, it cures rapidly to form a bubble free thick layer membrane with excellent mechanical properties. LAVA DETAIL 20 is ideal for use during the winter months or in climates with relatively low humidity.

Features & Benefits

- No reinforcement necessary
- Fast curing! Skin formation time of 2 hours @ 20°C.
- Bubble and defect free membrane.
- Excellent weather and UV resistance
- Excellent thermal resistance, the product never turns soft. Recommended service temperature 80°C, max shock temperature 200°C.
- Resistance in the cold: OWL LAVA 20 DETAIL remains elastic even down to -40°C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance. • Good chemical resistance

Not recomend for unsound or structurally deteriorated substrates

Packaging

2kg, 6kg, 15kg cans

Application

All substrates must be primed with LAVA Prime 20 prior to application of the LAVA 20 waterproofing system. Can be successfully applied on: Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood. For information about other substrates please contact our technical department.

Apply by brush, spatular, notched trowel/squeegee. Minimum consumption +/- 1.8kg/m<sup>2</sup>

Waterproofing and protection of

- Flashings
- Wall-floor connections
- Chimneys
- Pipes
- Photovoltaic systems
- Air-conditioning units
- Gutter

Cleaning

Clean tools and equipment with paper towels and then use PU Solvent.

Shelf Life

Can be kept for minimum 12 months in the original unopened cans in dry conditions and at temperatures of 5-25°C. Once a can has been opened, use as soon as possible.

Precautions

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.





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## LAVA DETAIL 20 Reinforced

Multi purpose waterproofer

Lava Detail 20 Reinforced is a single component polyurethane waterproofing system. The product can be applied in temperatures down to 0°C.

Rain resistant within 30 minutes

### Description

LAVA DETAIL 20 is a thixotropic and fibre-reinforced single component polyurethane liquid membrane used for waterproofing and protection of roof detail structures. Due to its unique formation, it cures rapidly to form a bubble free thick layer membrane with excellent mechanical properties. LAVA DETAIL 20 is ideal for use during the winter months or in climates with relatively low humidity.

### Features & Benefits

- No reinforcement necessary
- Fast curing! Skin formation time of 2 hours @ 20°C.
- Bubble and defect free membrane.
- Excellent weather and UV resistance
- Excellent thermal resistance, the product never turns soft. Recommended service temperature 80°C, max shock temperature 200°C.
- Resistance in the cold: OWL LAVA 20 DETAIL remains elastic even down to -40°C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance. • Good chemical resistance

**Not recommended for unsound or structurally deteriorated substrates**

### Packaging

2kg, 6kg, 15kg cans

### Application

All substrates must be primed with LAVA Prime 20 prior to application of the LAVA 20 waterproofing system.

Can be successfully applied on: Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood. For information about other substrates please contact our technical department.

Apply by brush, spatular, notched trowel/squeegee.  
Minimum consumption +/- 1.8kg/m<sup>2</sup>

### Waterproofing and protection of

- Flashings
- Wall-floor connections
- Chimneys
- Pipes
- Photovoltaic systems
- Air-conditioning units
- Gutter

### Cleaning

Clean tools and equipment with paper towels and then use PU Solvent.

### Shelf Life

Can be kept for minimum 12 months in the original unopened cans in dry conditions and at temperatures of 5-25°C. Once a can has been opened, use as soon as possible.

### Precautions

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.



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## LAVA Prime 20

### Multi purpose primer

Lava Prime 20 is a single component low viscosity polyurethane based primer. The product can be applied on damp substrates and in temperatures down to 0°C.

### Description

LAVA PRIME 20 is a one component, low viscosity, polyurethane based primer suitable for many different substrates. It is characterised by its very low viscosity and balanced curing speed which result in excellent wetting, impregnation and coat over time on different substrates whether of high, low or no porosity (e.g. glass and metals). If in doubt, contact technical services about primers going onto damp surfaces. The cured LAVA PRIME 20 film displays outstanding mechanical properties: Its elongation is > 300%, and its tensile strength surpasses 30 N/mm<sup>2</sup>.

Apply with brush or roller. Usage: 100-200gr/m<sup>2</sup>, subject to substrate porosity.

### Features & Benefits

- One component.
- Very low viscosity.
- Easily applied by roller, brush or squeegee, even on wet concrete (providing standing water is removed).
- Adheres strongly, even on glassy, non porous substrates i.e. ceramic tiles, steel or most other metals.
- Excellent wetting, impregnation and coat-over time.
- Elastic.
- Many pigment pastes available to produce a coloured sealer.
- A low cost solution for concrete sealing and protection.

**Will discolour when used on its own and exposed to UV light. This is purely visual and does not effect the performance of the membrane.**

### Packaging

5ltr cans

### Application

Clean the surface using a high pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must also be removed. If there are surface irregularities, we recommend adding 0.1-0.4mm clean dry sand to the resin, to form a flowing filler. Apply with brush or roller. Once cured, the OWL LAVA 20 Waterproofing System can be applied.

### For Priming Of

- Asbestos cement (damp or dry).
- Concrete structures (Humid, damp or wet concrete).
- Ceramic tiles.
- Non porous substrates like glass, marble and metals.
- Also, for use as a concrete sealer and dust proofer

### Cleaning

Clean tools and equipment with paper towels and then use PU Solvent. Rollers will not be reusable.

### Shelf Life

Can be kept for minimum 12 months in the original unopened cans in dry conditions and at temperatures of 5-25°C. Once a can has been opened, use as soon as possible.

### Precautions

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.





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# LAVA Prime 20

## Multi purpose primer

Lava Prime 20 is a single component low viscosity polyurethane based primer. The product can be applied on damp substrates and in temperatures down to 0°C.



### Description

LAVA PRIME 20 is a one component, low viscosity, polyurethane based primer suitable for many different substrates. It is characterised by its very low viscosity and balanced curing speed which result in excellent wetting, impregnation and coat over time on different substrates whether of high, low or no porosity (e.g. glass and metals). If in doubt, contact technical services about primers going onto damp surfaces. The cured LAVA PRIME 20 film displays outstanding mechanical properties: Its elongation is > 300%, and its tensile strength surpasses 30 N/mm<sup>2</sup>.

Apply with brush or roller. Usage: 100-200gr/m<sup>2</sup>, subject to substrate porosity.

### Features & Benefits

- One component.
- Very low viscosity.
- Easily applied by roller, brush or squeegee, even on wet concrete (providing standing water is removed).
- Adheres strongly, even on glassy, non porous substrates i.e. ceramic tiles, steel or most other metals.
- Excellent wetting, impregnation and coat-over time.
- Elastic.
- Many pigment pastes available to produce a coloured sealer.
- A low cost solution for concrete sealing and protection.

Will discolour when used on its own and exposed to UV light. This is purely visual and does not effect the performance of the membrane.

### Packaging

5ltr cans

### Application

Clean the surface using a high pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must also be removed. If there are surface irregularities, we recommend adding 0.1-0.4mm clean dry sand to the resin, to form a flowing filler. Apply with brush or roller. Once cured, the OWL LAVA 20 Waterproofing System can be applied.

### For Priming Of

- Asbestos cement (damp or dry).
- Concrete structures (Humid, damp or wet concrete).
- Ceramic tiles.
- Non porous substrates like glass, marble and metals.
- Also, for use as a concrete sealer and dust proofer

### Cleaning

Clean tools and equipment with paper towels and then use PU Solvent. Rollers will not be reusable.

### Shelf Life

Can be kept for minimum 12 months in the original unopened cans in dry conditions and at temperatures of 5-25°C. Once a can has been opened, use as soon as possible.

### Precautions

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

## LAVA 20

### Novel, all weather rapid curing, single component polyurethane liquid membrane for waterproofing and protection based on Humidity-Activated-Accelerator, Technology

#### DESCRIPTION

LAVA 20 is a unique single component polyurethane liquid membrane, based on the successful combination of LAVA 20 and Accelerator 3000 which throughout the years has provided applicators with a solution for a fast curing, bubble free thick layer membrane. Our commitment to R&D and investment and our efforts to continuously upgrade our Chemical processing plant has allowed us to formulate a LAVA 20 with the OWL Accelerator incorporated in a blocked fashion, that upon contact with humidity is released and self-accelerates the curing of the material in a similar manner as the OWL Accelerator.

Due to its unique formulation, it cures rapidly to form a completely defect free membrane with excellent mechanical and elastomeric properties. This product is ideal for use during the winter months or in climates with relatively low humidity. Furthermore, the fact that the minimum consumption can now be achieved in only one coat, reduces labor cost and eliminates previous drawbacks of the + OWL Accelerator system such as short working time or problems associated with using LAVA 20 on its own in multilayer coats adhesion failure.

Apply with brush, roller or airless spraying  
Minimum consumption: ±1.5 kg/m<sup>2</sup>.

#### COMPLIANCE

The product complies with the EU guideline for this type of materials, EOTA (European Organization of Technical Approval).

#### RECOMMENDED FOR

Waterproofing and protection of:

- Gypsum and cement boards,
- polyurethane insulation foams,
- verandas and balconies,
- roofs,
- light roofing made of metal or fibrous cement,
- asphalt membranes,
- EPDM membranes.

#### LIMITATIONS

Not recommended for:

- Unsound substrates,
- waterproofing of swimming pool surfaces in contact with chemically treated water.
- **Primer usage is necessary**, please refer to primer selection table or contact our technical department.

#### FEATURES & BENEFITS

- Fast curing! Skin formation time of 2 hours.
- Bubble and defect free membrane.
- No thinning is required but SOLVENT may be used.

LAVA 20

- Excellent weather and UV resistance. The white colour reflects much of the solar energy and so reduces the internal temperature of buildings considerably.
- Excellent thermal resistance, the product never turns soft. Recommended service temperature 80 °C, max shock temperature 200 °C.
- Resistance in the cold: The film remains elastic even down to -40 °C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- Good chemical resistance.
- Moisture vapor transmission: The film breathes so there is no accumulation of humidity under the coat.
- Special primers available for almost every substrate.

APPLICATION PREREQUISITES

Can be successfully applied on:

Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood. For information about other substrates, please contact our tech department.

Concrete substrate conditions (standard):

- Hardness:  $R_{28} = 15\text{Mpa}$ .
- Humidity:  $W < 10\%$ .
- Temperature: 5-35 °C.
- Relative humidity:  $< 85\%$ .

Primer selection for special conditions and substrates:

Please refer to the *Primer Selection Table*.

APPLICATION PROCEDURE

Clean the surface using a high pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must be removed. Fill surface irregularities with the necessary product.

Priming:

Apply the required primer following the guidelines above.

Mixing:

Use a low speed (300 rpm) mixer. Add SOLVENT 5-10% for application by spraying.

Application:

Apply the material with roller or brush in one or two, coats. Do not exceed 48 hours between coats. If more time passes (for example more than 4 days) or if you are unsure of the interlayer adhesion, please contact our technical department.

CONSUMPTION

Minimum consumption:  $\pm 1,8 \text{ kg/m}^2$ .

CLEANING

Clean tools and equipment first with paper towels and then using SOLVENT. Rollers will not be re-usable.

PACKAGING

2kg, 6 kg, 15 kg, 25 kg drums.

SHELF LIFE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 °C. Once a pail has been opened, use as soon as possible.

PRECAUTIONS

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

LAVA 20

TECHNICAL SPECIFICATIONS

In liquid form (before application):

90% dry matter in Xylol.

| PROPERTY                                 | UNITS              | METHOD                                    | SPECIFICATION |
|------------------------------------------|--------------------|-------------------------------------------|---------------|
| Viscosity (BROOKFIELD)                   | cP                 | ASTM D2196-86, @ 25 °C                    | 3500-5500     |
| Specific weight                          | gr/cm <sup>3</sup> | ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C | 1.3-1.4       |
| Flash point                              | °C                 | ASTM D93, closed cup                      | 42            |
| Tack free time, @ 77 °F (25 °C) & 55% RH | hours              | -                                         | 2-3           |
| Recoat time                              | hours              | -                                         | 6-48          |

The cured membrane:

| PROPERTY                                                                         | UNITS                                   | METHOD                            | SPECIFICATION        |
|----------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|----------------------|
| Service temperature                                                              | °C                                      | -                                 | -40 to 80            |
| Max. temperature short time (shock)                                              | °C                                      | -                                 | 200                  |
| Hardness                                                                         | Shore A                                 | ASTM D2240 / DIN 53505 / ISO R868 | 70                   |
| Tensile strength at break @ 23 °C                                                | Kg/cm <sup>2</sup> (N/mm <sup>2</sup> ) | ASTM D412 / EN-ISO-527-3          | 65 (6,5)             |
| Percent elongation @ 23 °C                                                       | %                                       | ASTM D412 / EN-ISO-527-3          | > 400                |
| Water vapour transmission                                                        | gr/m <sup>2</sup> .hr                   | ASTM E96 (Water Method)           | 0.8                  |
| Tensile set (after 300% elongation)                                              | %                                       | ASTM D412                         | < 3%                 |
| QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C) | -                                       | ASTM G53                          | passed (2,000 hours) |

Distributed by:  
OWL Distribution  
144 Stanley Close, Dublin Industrial Estate, Glasnevin Dublin 11  
Tel: +44 845 528 1480

# LAVA DETAIL 20

## One-component, polyurethane membrane used for roof-details waterproofing

### DESCRIPTION

**Lava Detail 20** is a thixotropic and fibre-reinforced, one component polyurethane liquid membrane used for waterproofing and protection of roof detail structures. Due to its unique formulation, it cures rapidly to form a bubble free thick layer membrane with excellent mechanical properties. This product is ideal for use during the winter months or in climates with relatively low humidity. Apply with brush or roller. Minimum consumption: ±1.8 kg/m<sup>2</sup>.

### COMPLIANCE

The product complies with the EU guideline for this type of materials, EOTA (European Organization of Technical Approval).

### RECOMMENDED FOR

- Waterproofing and protection of:
- flashings
  - wall-floor connections
  - chimneys
  - pipes
  - photovoltaic systems
  - air-condition units
  - gutters

### FEATURES & BENEFITS

- No reinforcement necessary in flashing points
- Fast curing! Skin formation time of 2 hours.
- Bubble and defect free membrane.
- Excellent weather and UV resistance.

- Excellent thermal resistance, the product never turns soft. Recommended service temperature 80 °C, max shock temperature 200 °C.
- Resistance in the cold: The film remains elastic even down to -40 °C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- Good chemical resistance.

### APPLICATION PREREQUISITES

**Can be successfully applied on:**  
Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood. For information about other substrates, please contact our tech department.

- Concrete substrate conditions (standard):**
- Hardness: R<sub>28</sub> = 15Mpa.
  - Humidity: W < 10%.
  - Temperature: 5-35 °C.
  - Relative humidity: < 85%.

### APPLICATION PROCEDURE

Clean the surface using a high pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must be removed. Fill surface irregularities with the necessary product.

### CONSUMPTION

Minimum consumption: **±1,8 kg/m<sup>2</sup>**.

### CLEANING

Clean tools and equipment first with paper towels and then using SOLVENT. Rollers will not be re-usable.

# LAVA DETAIL 20

### PACKAGING

5, 15, 25 kg

### SHELF LIFE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 °C. Once a pail has been opened, use as soon as possible.

### PRECAUTIONS

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

### TECHNICAL SPECIFICATIONS

**In liquid form (before application):**

| PROPERTY                                 | UNITS              | METHOD                                    | SPECIFICATION |
|------------------------------------------|--------------------|-------------------------------------------|---------------|
| Viscosity (BROOKFIELD)                   | cP                 | ASTM D2196-86, @ 25 °C                    | 5000-7000     |
| Specific weight                          | gr/cm <sup>3</sup> | ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C | 1.4-1.5       |
| Flash point                              | °C                 | ASTM D93, closed cup                      | 42            |
| Tack free time, @ 77 °F (25 °C) & 55% RH | hours              | -                                         | 2-3           |
| Recoat time                              | hours              | -                                         | 6-48          |

**The cured membrane:**

| PROPERTY                                                                       | UNITS                                   | METHOD                            | SPECIFICATION        |
|--------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|----------------------|
| Service temperature                                                            | °C                                      | -                                 | -40 to 80            |
| Max. temperature short time (shock)                                            | °C                                      | -                                 | 200                  |
| Hardness                                                                       | Shore A                                 | ASTM D2240 / DIN 53505 / ISO R868 | 70                   |
| Tensile strength at break @ 23 °C                                              | Kg/cm <sup>2</sup> (N/mm <sup>2</sup> ) | ASTM D412 / EN-ISO-527-3          | 80 (8,5)             |
| Percent elongation @ 23 °C                                                     | %                                       | ASTM D412 / EN-ISO-527-3          | > 200                |
| QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @50°C) | -                                       | ASTM G53                          | passed (2,000 hours) |



# LAVA Prime 20

**Low Viscosity, polyurethane based primer / concrete sealer, for both porous & non-porous substrates, and both dry & wet concrete.**

### DESCRIPTION

LAVA Prime 20 is a one component, low viscosity, polyurethane based primer suitable for many different substrates.

It is characterised by its very low viscosity and balanced curing speed which result in excellent wetting, impregnation and paint-over time on different substrates, whether of high, low or no porosity (e.g. glass and metals). Additionally, it can be effectively used on both dry and wet concrete, even green concrete, not only as primer but also as a low-cost sealing solution, increasing, thus, the durability of the substrate.

The cured film displays outstanding mechanical properties: Its elongation is >300%, and its tensile strength surpasses 30 N/mm<sup>2</sup>.

Apply with brush or roller. Consumption: 100-200gr/m<sup>2</sup>, subject to substrate porosity.

### COMPLIANCE

The adhesion strength of LAVA Prime 20 exceeds the requirements of EOTA (European Organization of Technical Approval).

### RECOMMENDED FOR

To be used as primer for:

- Concrete structures (Humid, damp or wet concrete)
- ceramic tiles,
- non-porous substrates like glass, marble & metals.

Also, for use as concrete sealer.

### LIMITATIONS



Will discolour when used on its own exposed. This is purely visual and does not affect the performance of the membrane.

### FEATURES & BENEFITS

- One component.
- Of low viscosity.
- Can be applied to damp concrete.
- Adheres strongly, even on glassy, non-porous substrates.
- Excellent wetting, impregnation and paint-over time.
- Elastic.
- Many pigment pastes available.
- A low-cost solution for concrete sealing & protection.

### APPLICATION PROCEDURE

Clean the surface using a high pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must also be removed. If there are surface irregularities, we recommend charging Lava Prime 20 with sand.

Apply with brush or roller. Once cured, the main membrane (e.g LAVA 20 System) can be applied.

# LAVA Prime 20

### CLEANING

Clean tools and equipment first with paper and then using SOLVENT. Rollers will not be re-usable.

### PACKAGING

5 Lt

### SHELF LIFE

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25 °C.  
Once opened, use as soon as possible.

### TECHNICAL SPECIFICATIONS

#### In liquid form (before application):

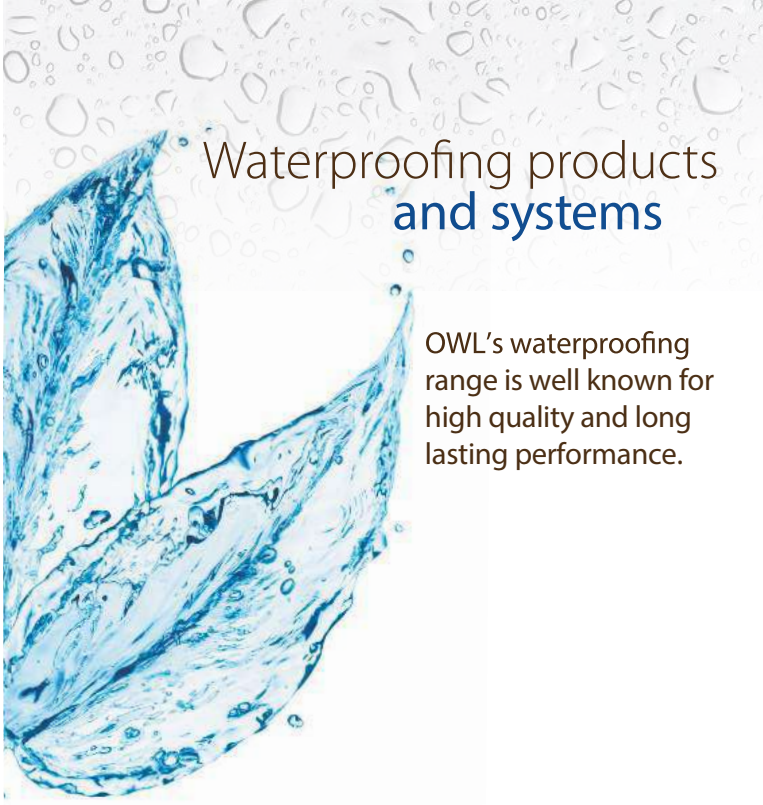
| PROPERTY               | UNITS              | METHOD                                    | SPECIFICATION |
|------------------------|--------------------|-------------------------------------------|---------------|
| Viscosity (Brookfield) | cP                 | ASTM D2196-86 @ 25 °C                     | 40-50         |
| Specific weight        | gr/cm <sup>3</sup> | ASTM D1475 / DIN 53217 / ISO 2811 @ 20 °C | 0.9-1         |

#### In cured form (after application):

| PROPERTY                          | UNITS                                   | METHOD                   | SPECIFICATION |
|-----------------------------------|-----------------------------------------|--------------------------|---------------|
| Tensile strength at break @ 23 °C | Kg/cm <sup>2</sup> (N/mm <sup>2</sup> ) | ASTM D412 / EN-ISO-527-3 | 300 (30)      |
| Elongation @ 23 °C                | %                                       | ASTM D412 / EN-ISO-527-3 | > 300         |
| Dry to touch:<br>• On DRY cement  | hours                                   | -                        | 4-6           |
| Application of main membrane      | hours                                   | -                        | 12-24         |
| Adhesion to cement                | mPa                                     | ASTM D1640               | > 4           |

### SAFETY INFORMATION

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.



## Waterproofing products and systems

OWL's waterproofing range is well known for high quality and long lasting performance.



# OWL

THE WISE CHOICE

### **DURABLE**

OWL waterproofing products are long lasting, durable systems that guarantee lasting quality you can count on.

### **FLEXIBLE**

OWL products are very flexible and will expand on contract throughout the year with your surface.

### **EASY**

Apply simply by using a roller, brush, squeegee or sprayer; OWL products are easy to apply without any risk of making mistakes.

### **FAST**

OWL products reduce tedious applications and cut labour costs and time dramatically whilst avoiding risks with sudden rain and cold temperatures.

