OWL WATERPROOFING

THE WISE CHOICE

APPLICATION GUIDE LAVA 20 SYSTEM

ROOF & BALCONY/ DECK WATERPROOFING

This application guide outlines the application process for the Lava 20 System

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Lava 20 System

The Durable, Versatile & Flexible Liquid Rubber Waterproofing System For Flat or Low Pitched Roofs, Balconies, Decks & Terraces etc.

The Lava 20 System is ideal for enhancing the durability and resilience of various surfaces exposed to diverse environmental challenges. It proves effective for:

- Flat Roofs, Balconies, Terraces & Car Parks
- Wet Areas
- Sloped Roofs
- Under or Over Tiles
- Public Walkways etc.

Uses & Benefits

- Cost Effective
- Flexible / High Elasticity
- Ponding Water Resistant
- Withstands All Temperatures (Freezing & Hot)
- Chemical Resistant
- Seamless / No Joints
- Versatile
- Bonds to Almost Everything
- Vapour Permeable (Breathable)
- Easy Detailing
- Maintenance Free
- Fast & Easy to Apply
- UV Resistant
- 25 Year Warranty
- Highly Durable
- Optional Anti - Slip Finish
- BBA & CE Certified
- Highly Fire Rated
- Remains Flexible in All Temperatures

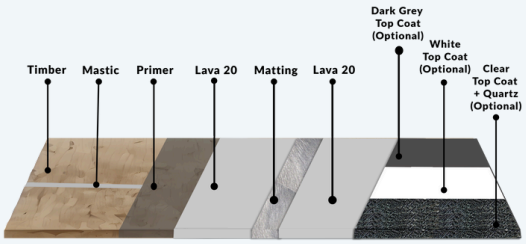
Substrates

Bonds to almost all surfaces.

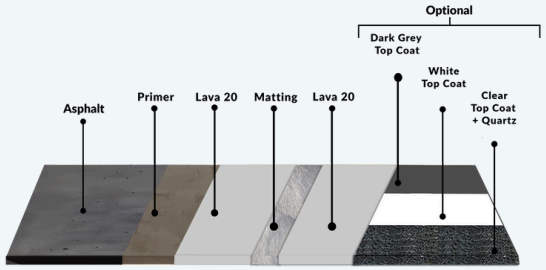
- Timber (OSB / Plywood)
- Asphalt*
- Torch Down Felt (BUR)*
- Concrete
- Tiles
- Insulation
- Cement Boards
- Metals
- Single Ply
- Spray Foam
- Asbestos
- GRP
- Existing Coatings (Except Silicone)

*Requires Matting

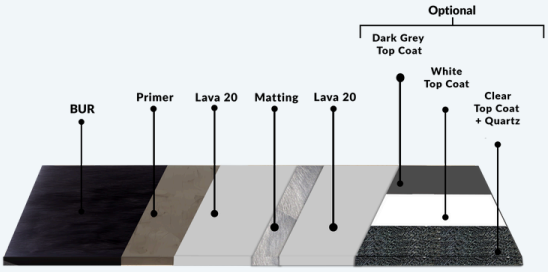
Lava 20 System on Different Substrates



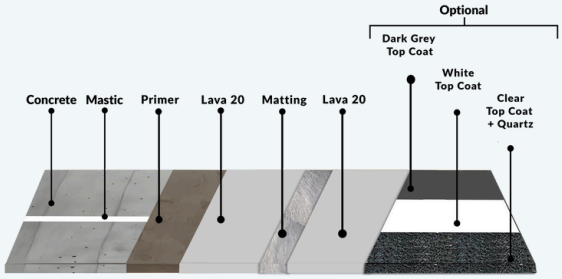
Timber



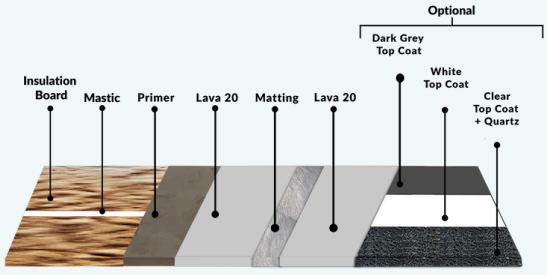
Asphalt



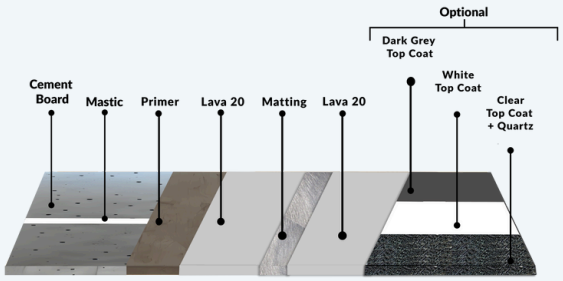
Torch Down Felt (BUR)



Concrete

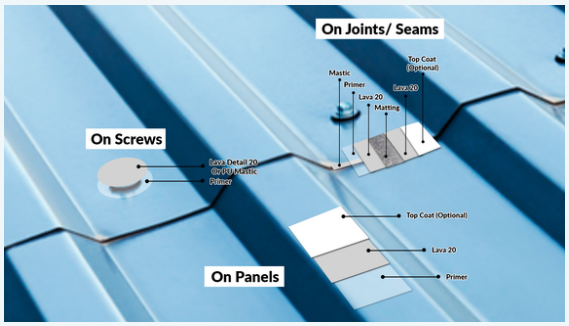


Insulation Board

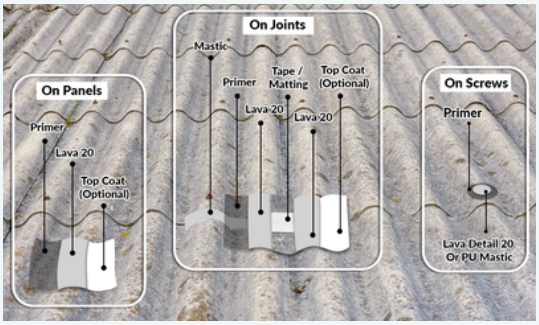


Cement Board

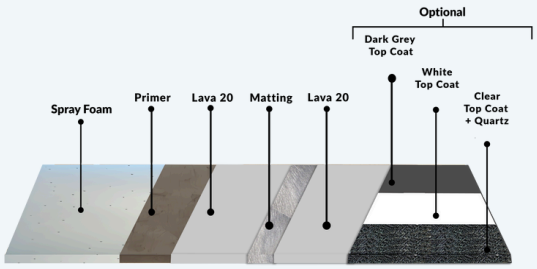
Lava 20 System on Different Substrates



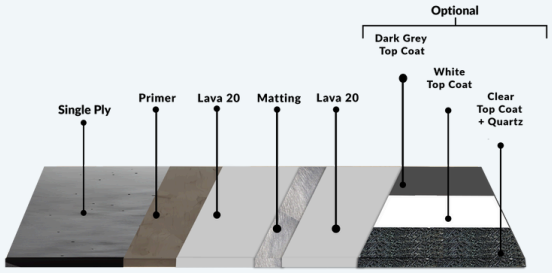
Metal



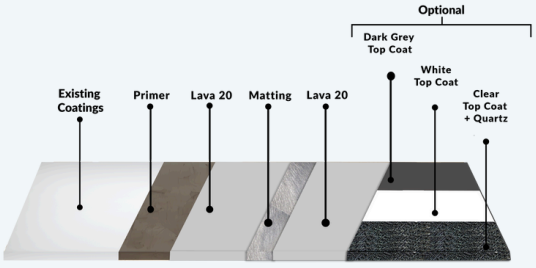
Asbestos



Spray Foam



Single Ply

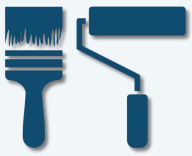


Existing Coatings

Installation Conditions:

Surface Treatment:	Ensure the surface is clean and dry.
Weather Considerations:	Application should only occur when there is no forecast of rain or snow.
Temperature Range:	Ensure substrate temperatures are between 5°C and 35°C and at least 3°C above the dew point. If outside this range, consult with Owl Waterproofing Solutions.
Ventilation & PPE:	Ensure adequate ventilation. Ensure operative were correct PPE.
Fire and Spark Safety:	Ensure there are no nearby open fires or sparks or anyone smoking.
Compliance with Regulations:	Follow manufacturer's requirements and comply with local regulations governing workplace safety.

Tools & Equipment:



Personal Protective Equipment (PPE):	Always wear PPE, protective gloves, protective eyewear, safety shoes, hardhats, and safety harnesses.
Application Tools:	Solvent resistant rollers and brushes, mixing drill, paddle, masking tapes, scissors/ knives, mastic gun.

Environmental Requirements

Application Temperature:

Ideal temperatures are between 5°C and 35°C, with the surface being a minimum of 3°C above the dew point.

Cold Weather:

Application is possible in temperatures between 1°C and 5°C, but be aware of extended curing times.

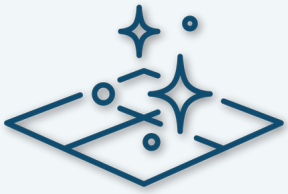
Hot Weather:

Avoid applying in temperatures over 35°C due to the potential for blistering from vapors releasing from substrates and reduced working time and pot life. Store materials in the shade/ a cool location.

Humidity:

High humidity may affect the final finish & curing time.

Ideal humidity range for LAVA 20:
Lowest: 5%
Highest: 75%



General Preparation

Existing Surface Evaluation

- **Inspect the Site:** Assess site conditions and conduct adhesion tests.
- **Surface Repairs:** Owl Waterproofing Solutions recommends repairing any defects on the surface before applying LAVA 20.

Odor Precautions

Odor cautions are usually not required. However, follow these steps if needed.

- Seal air intakes with activated carbon filters.
- Seal windows, doors, and skylights.
- You can use moveable enclosures and/ or set up odor elimination stations equipped with air intake/ output, odor control air cleaners, and carbon filters at exhaust openings.

Products Description

Sealant:

Owl PU Mastic

Owl PU Mastic is an industrial strength polyurethane fast - curing adhesive & sealer.

- Fill & smooth holes, gaps, joints etc.
- Great adhesion to almost all surfaces.
- Suitable for almost any surface.
- Can be used alone for emergency repair.
- Can be used as a part of the Owl Lava 20 Waterproofing System.

Primers:

Lava 20 Fast Primer

Lava 20 Fast Primer is a single pack multi purpose primer for using with Lava 20 Waterproofing System. Perfect for concrete, wood and metals.

- Suitable for application on substrates with high, low or no porosity.
- Suitable for application on most existing coatings.

Owl Universal 2 Part Epoxy Primer

Owl Universal 2 Part Epoxy Primer is suitable for both absorbent and non-absorbent surfaces like torch down felt/ BUR, concrete, metals, timber, bitumen, asphalt, ceramic tiles, stone, and most existing coatings.

Lava 20 TPO/ EPDM Primer

Lava 20 TPO/ EPDM Primer is a single component, solvent based adhesion enhancer. Formulated to prepare TPO & EPDM membranes for excellent adhesion with the Lava 20 System.

Lava 20 Cleaner & PVC Primer

Lava 20 Cleaner & PVC Primer is a solvent based cleaner for the Lava 20 System & A washable PVC Primer. It's also used for airless spraying by machine to dilute Lava 20 by max 10% in weight and also this product can be used to clean tools etc.

Lava 20 UV Primer

Lava 20 UV Primer is a non yellowing primer, for using with Lava 20 or Lava 20 Clear Top Coat.

Products Description

Catalysts:

Lava 20 Catalyst

Lava 20 Catalyst is an accelerating additive, used with the liquid rubber waterproofing membrane Lava 20. It is used for a faster drying time and a thicker coat applications.

Available Size:

- Lava 20 6 KG + Lava 20 Catalyst **0.18 KG**
- Lava 20 15 KG + Lava 20 Catalyst **0.45 KG**
- Lava 20 25 KG + Lava 20 Catalyst **0.75 KG**

Liquid Waterproofing Membrane

Lava 20

Lava 20- the durable, versatile & flexible liquid rubber waterproofing system for flat or low pitched roofs, balconies, decks, terraces etc.

- 25 Year Warranty
- Chemical Resistant
- UV resistant
- Breathable
- Fast & easy application

Lava Detail 20 Fiber Reinforced

(Thicker Version of Lava 20)

Lava Detail 20 Reinforced is a fiber reinforced polyurethane coating for complex roofing details, such as: wall floor connections, flashings, corners, chimneys, pipes, gutter, outlets, screws, fixings.

- Liquid Applied; Thixotropic
- Permanently flexible
- Easy & fast to use
- Great for awkward details.

Lava 20 Vertical

(Thicker Version of Lava 20)

Lava 20 Vertical is a semi thixotropic viscosity suitable for vertical, sloped & also flat surfaces.

- Provides waterproofing
- Provides water vapour permeability
- Weather & UV resistant
- Provides high sun reflectivity, contributes to thermo insulation

Products Description

Reinforcement Fabrics - For Extra Strength and Durability

Chopped Strand Matting

Emulsion binder fiberglass matting for strength and reinforcement. Good for flat surfaces, does not break down.
Powder binding fiberglass matting for strength and reinforcement. (Breaks down). Good for detail (i.e. rounded corners) and flat surfaces.

Polyester Reinforcing Fabric

Polyester reinforcement. Suitable for any surface.

Top Coats - Any Top Coat Can be Used Alone or with Quartz/ Sand for an Anti Slip Finish

Lava 20 Clear Top Coat

Lava 20 Clear Top coat is a durable, transparent polyurethane waterproofing coating designed to be tough and long-lasting. Its advanced formulation remains transparent and flexible, even after aging, and offers UV stability without yellowing, resistance to weather, alkalis, and chemicals. Lava 20 Clear Top coat serves as a transparent binder resin anti slip for stone carpet finishes, particularly in exterior applications where durability, UV stability and flexibility are essential. This top coat is moisture cured and fast drying. Long lasting and durable performance.

Lava 20 Coloured Top Coats

Lava 20 Coloured Top Coat is a pigmented, colour- and UV-stable, highly elastic polyurethane coating designed as a top-coat for protecting exposed polyurethane waterproofing membranes.
Available Colours: Dark Grey (RAL 7016), White (RAL 9003), Red (RAL 3011), Blue (RAL 5015), Green (RAL 6002), Light Grey(RAL 7005), Yellow (RAL 1018), Black (RAL 9017), Brown (RAL 8028) (Special colours on request).
Long lasting and durable performance.
Zero degradation. In theory lasts forever.

Technical Installation Guide

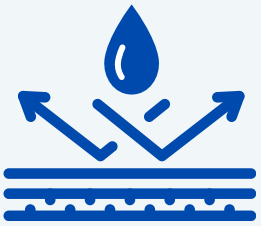
The Liquid Applied Roof Waterproofing Kit 'LAVA 20 SYSTEM' is designed and installed in accordance with the manufacturer design and installation instructions.
(ETA 22/0640)

Lava 20 Primer over concrete metal and PU: Epoxy Water Based			
Warranty	**25 Year**	**25 Year**	**10 Year (Metal Only)**
	System 1 (Lava 20 + Top Coat)	**System 2 (Lava 20 Only: 2.9 mm)**	**System 3 (Lava 20 Only: 1.6 mm)**
Consumption	≥ 0.15 kg/m2	≥ 0.15 kg/m2	≥ 0.15 kg/m2

Lava 20 Waterproofing Membrane			
Warranty	**25 Year**	**25 Year**	**10 Year (Metal Only)**
	System 1 (Lava 20 + Top Coat)	**System 2 (Lava 20 Only: 2.9 mm)**	**System 3 (Lava 20 Only: 1.6 mm)**
	Lava 20 + 3% (weight) Lava 20 Catalyst + Optional: Lava 20 Top Coat	Lava 20 + 3% (weight) Lava 20 Catalyst	
Consumption	≥ 2.3 kg/m2	≥ 1.8 kg/m2	≥ 1.8 kg/m2
Internal Mesh	Lava 20 Polyester / Chopped Strand Matting Reinforcing Fabric	-	

Lava 20 Top Coat Finish Layer: UV Protection			
Warranty	**25 Year**	**25 Year**	**10 Year (Metal Only)**
	System 1 (Lava 20 + Top Coat)	**System 2 (Lava 20 Only: 2.9 mm)**	**System 3 (Lava 20 Only: 1.6 mm)**
	Optional: Lava 20 Top Coat	Optional Lava 20 Top Coat	
Consumption		≥ 0.15 kg/m2	
Thickness	1.2 mm	1.0 mm	

Technical Installation Guide



Warranty	25 Year	25 Year
Characteristics	**System 1 (Lava 20 + Top Coat)**	**System 2 (Lava 20 Only: 2.9 mm)**
Thickness	1.2 mm	1.0 mm
External Fire Performance	B_{ROOF} (t4)	NPA
Reaction to Fire	NPA	NPA
Categorization by Working life	W3 (25 Years)	W3 (25 Years)
Categorization by Climatic Zone	S (severe)	S (severe)
Categorization by Imposed Loads	Concrete/Steel P3: TH2-TH1 P2: TH4-TH3	Concrete/Steel P3: TH2-TH1 P2: TH4-TH3
	PU Insulation P2: TH4-TH1	PU Insulation P2: TH4-TH1
Categorization by Roof Slope	S1 (<5%) TO S4 (>30%)	S1 (<5%) TO S4 (>30%)
Categorization by Surface Temperature	Lowest: TL4 (-30°C)	Lowest: TL4 (-30°C)
	Highest: TH4 to TH1 (90°C to 30°C)	Highest: TH4 to TH1 (90°C to 30°C)
Resistance to Wind Loads	≥ 50 kPa	≥ 50 kPa
Statement on Dangerous Substances	NPD	NPD

Substrate Requirements

Before Application Checklist	Ensure the surface is clean, dry, and free from contaminants before application.
Moisture Content	Before application, check the substrate's moisture content, humidity, and dew point using a moisture meter. The moisture content must not exceed 5%. No rising moisture should be present, confirmed by ASTM D 4263 (Polyethylene sheet test).
Ambient and Surface Temperature	Ensure both ambient and surface temperatures are: ◦ Minimum: +5°C ◦ Maximum: +35°C Be mindful of condensation; the substrate should be at least 3°C above dew point. Application must not take place when the relative humidity is in excess of 95%, or in fog. The temperature/ humidity must be such that there is no risk of surface condensation occurring before or during application

General Surface Preparation

Ensure the surface is clean, dry, and free from contaminants before applying the Lava 20 System.

General Cleaning:	Use a power washer or broom to remove dirt debris.
Degreasing:	For grease contaminated surfaces, use a suitable degreasing cleaner to remove any grease etc. (Alkaline degreaser).
Repair/ Filling/ Levelling:	For uneven or damaged surfaces, patch and repair with Owl Super PU Mastic or sand + Lava 20 fast primer to provide a uniform substrate.

Substrate Preparation

Concrete, Metals

- New concrete, metal must cure for at least 28 days.
- Use of bond breaker tape is possible for excessive movement.
- Surfaces may need abrasive cleaning to provide a solid substrate, and all surface irregularities should be smoothed out.
- Repair spalls and voids before applying the primer coat. Any surface defects over 4 mm in depth should be repaired to prevent ponding.
- For concrete with compressive strength below 25 MPa and cohesive bond strength under 1.5 MPa, consult Owl Waterproofing Solutions for advice on surface preparation.

Timber/ Plywood/ OSB

- New or existing timber/ plywood/ OSB should have a moisture content under 6%.
- Ensure plywood meets the PS1 product standard and is marked with grade trademarks.
- Fill & smooth joints and gaps with Owl PU Mastic.
- Reinforce joints with the first coat of Lava 20, followed by 4 inch tape/ 6 inch tape/ 1 meter mesh, followed by another layer of Lava 20.
- Use of Bond Breaker tape is possible (masking tape underneath joints).

Asphalt/ Bituminous Membranes

- Replace or repair any damaged areas of the existing membrane and underlying layers.
- On smooth membranes, remove loose coatings and liquify the surface using a torch, applying dry silica sand. Conduct adhesion tests for compatibility.
- For granule and gravel-surfaced membranes, clean, vacuum or use a power washer. On gravel-surfaced membranes, thoroughly clean the surface and remove ridges and high points top create a smooth surface to apply on.
- Do not apply over asphalt based surfaces that hasn't aged at least 160 days.

Substrate Preparation

Single Ply (PVC)

- Replace or repair any damaged or saturated sections of the roofing membrane and underlying assembly.
- Wipe the single-ply surface with Lava 20 cleaner & PVC primer & allow to dry.
- Adhesion tests are recommended to ensure compatibility before proceeding with the project.

Single Ply (TPO/EPDM)

- Replace or repair any damaged or saturated sections of the roofing membrane and underlying assembly.
- Prime the single-ply surface with Lava 20 TPO/ EPDM Primer & allow to dry.
- Adhesion tests are recommended to ensure compatibility before proceeding with the project.

Other Substrate Surfaces

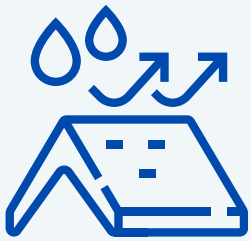
- Contact Owl Waterproofing Solutions for recommendations on preparing any other substrate surfaces.

Substrate Levelling, Patching & Repairing

Preferred Materials	Owl PU Mastic polyurethane sealant is suitable for filling gaps, voids, joints and waterproofing details etc. Lava 20 Fast Primer & silica sand is recommended for leveling, patching, and repairing substrate cracks and surfaces. Cementitious repair materials can be used for repairs.
Surface Requirements:	Ensure the substrate is clean, dry and relatively smooth.
Primer & Sand:	Lava 20 Fast Primer/ Owl Universal 2 Part Epoxy Primer with sand patching mix allows patching as part of the priming process. The membrane can be applied once the primer is fully dried. It is also recommended for repairing concrete and masonry surfaces, and for making slopes to address drainage issues.
Sand Aggregate Specifications:	Keep sand dry. Sand and primer mixing ratio is 1:3
Repairing and Waterproofing Details	Corners, joints, upstands and crack etc. can be repaired with these steps: 1. Fill & smooth voids with Owl PU Mastic. 2. Apply Lava 20 Primer 3. Use Lava 20 + Reinforcing mesh and coat with more Lava 20 or, use Lava Detail 20, followed by reinforcing mesh followed by more Lava 20 or Lava Detail 20. Structural joints should always be fully reinforced with mesh. Other details like outlets, pipes should also be reinforced with Lava Detail 20 or Lava 20 followed by mesh.

Primer

Always Use a Suitable Primer for Your Substrates



No Primer Needed:	If the concrete substrate has a compressive strength of at least 25MPa and a cohesive bond strength of 1.5MPa, no primer is required. Use Lava 20 Fast Primer or Owl Universal 2 Part Epoxy Primer.
Concrete, Wood/ Timber, Metals	Apply Lava 20 Fast Primer/ Owl Universal 2 Part Epoxy Primer.
For TPO / EPDM Substrate:	Use Lava 20 TPO & EPDM Primer.
For PVC Substrate:	Use Lava 20 Cleaner & PVC Primer and wipe surface. This primer can also be used as a thinner while using Lava 20 for spray and cleaning tools etc.
Mixing of Epoxy Primer	• Owl Universal 2 Part Epoxy Primer components A and B should be mixed for 4-6 minutes. • Let the mixture rest for 10 minutes, **then dilute it with 20-25% clean water to regulate viscosity and continue mixing.** Ensure thorough mixing throughout, especially at the coating sides and bottom until the material is mixed properly and consistent throughout the can.
Application of Primer	**Substrate Conditions:** • Lightly apply Primer with a roller, ensuring full wetting of the substrate while avoiding puddling or using excessive amount of primer.

Waterproofing with Lava 20 Polyurethane Coating System

Accelerating Cure & Thicker Applications

When applying Lava 20 add appropriate amount of Lava 20 Catalyst to the mixture to speed up curing. Mix thoroughly for 3 minutes.

For thicker layers use full appropriate size of Lava 20 Catalyst. This will speed up the drying time also.

Step-by-Step Application:

- **Step 1:** Apply Lava 20 onto the prepared and primed surface. Use a roller, brush, or airless spray to apply at a rate of 0.9 kg/m². If reinforcement is needed, apply Lava 20 Polyester Fabric/ Chopped Strand Matting.
- **Step 2:** After 24 hours (and no more than 48 hours), apply a second layer of Lava 20 at the same rate (0.9 kg/m²). If Lava 20 Polyester Fabric/ Matting was used in step 1, repeat this step, applying additional layers at 0.6-0.9 kg/m².
- **Step 3:** Allow 24 hours for curing before applying the Optional Topcoats.

Reasons for Bubbles

- Not reinforced & applied too thick in one pass and still outgassing.
- Primer not dried underneath.
- Not the right ratio of Catalyst or not mixed correctly
- Substrate moisture content.
- Contamination

Avoiding Bubbles

For optimal mixing, the Lava 20 liquid membrane and catalyst should be blended using a low-speed, high-torque mixing drill with a suitable mixing paddle.

Lava 20 Coverage (with Catalyst and Fleece):

- A 25 kg of Lava 20, when used with full catalyst and fleece, can cover a maximum of 10.90 sq m.
- For practical purposes, aim for coverage areas like 11.15 sq m or 11.61 sq m, but do not exceed the maximum limit, stated above to avoid bubbles.

Waterproofing with Lava 20 Polyurethane Coating System

Lava 20 (with Full Catalyst, No Fleece):

- The minimum required application is 1.5 kg per 1 m^2 when using Lava 20 with a full catalyst but without fleece.
- Coverage can range from 1.5 m^2 to 2 m^2, but should never be less than 1 m^2.

Lava 20 (No Catalyst, No Fleece):

- When applied without catalyst and fleece, use a minimum of 900 grams per 1 m^2.
- Recommended coverage should range from 1 m^2 to 1.5 m^2, ensuring not to apply less than 1 m^2.

Minimum Layer Thickness

The assembled system should have a minimum thickness of 1.0 mm without an internal mesh.

When an internal mesh is used, the layer thickness should be at least 1.2 mm.

Surface Temperature Guideline

Temperature Range:

- The surface temperature should be between 5°C and 36°C.

Application Conditions:

- It is suitable to apply the product when the temperature is above 5°C and below 36°C, and the surface is clean and dry.
- Low temperatures will slow the curing process, while higher temperatures will accelerate it.
- High humidity may affect the final finish/ drying time.
- Application on a cold surface is acceptable as long as there is no dew or condensation present. However, drying time will be slightly longer in colder conditions.

Waterproofing with Lava 20 Polyurethane Coating System

Mixing Lava 20 with Catalyst

Catalyst Usage:

- In colder temperatures, it is advisable to use a catalyst to speed up the curing process, especially if a faster cure is needed.
- It also helps to cure faster in case of thicker application & wet on wet use of fleece reinforcement.

Note: Termination of Waterproofing System

Always finish/ terminate the waterproofing systems edge/ perimeter appropriately using flashings, cappings, termination bars or raised edges or drip edges etc.

Re-coating:

If outside 48 hours since the last application of Lava 20 system, we recommend cleaning the surface with a solvent cleaner (Xylene, Acetone, Lava 20 Cleaner & PVC Primer) and then lightly prime again.

This will ensure intercoat adhesion.

Applications of Top Coats

Preparation: Thoroughly stir Lava 20 Clear/ Coloured Top coat before use.

Benefits

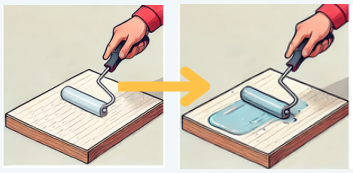
- Durable
- Lasts longer
- Zero Degradation
- Easier to Clean
- Flexible
- Optional Anti Slip Finish
- Great Hiding Power
- UV Stable
- Waterproof
- Great Coverage
- Aliphatic
- Sticks to almost any surfaces

Typical Top Coat Applications

Lava 20 Top Coats can change the look and longevity of your roofs, balconies etc. It can be applied over the Lava 20 System and can be used on Lava 20, Lava 20 Vertical, Lava Detail 20 and same or other Lava 20 Top Coats. Popular examples are Dark Grey Top or White Top Coat.

Type. 1 Application of Top Coats Only

(No Sand or Quartz)



Primer Lava 20 Top Coat

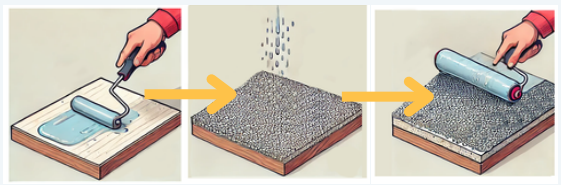
Apply top coats using a brush or roller or sprayer.

Consumption rate: 0.2 kg/m2

Apply Lava 20 Top Coat over the primed surface using a roller or a trowel. Do not apply layers thicker than 1 mm of dry film to avoid complications during curing. The ideal application and curing temperature are between 5°C and 35°C.

Type. 2 Application of Lava 20 Top Coat with Quartz for an Anti Slip Finish

(High traffic areas, balconies, walkways, car parks etc.)



Light Coat Cov. Rate: 0.2 kg/m2 Quartz Heavy Coat Cov. Rate: 0.4 kg/m2

You can create a functional anti slip finish with Clear Top Coat and any colour quartz or sand or you can use the Lava 20 coloured Top Coats with sand or quartz. Lava 20 Top Coat and quartz adds a durable anti slip finish for demanding traffic areas such as balconies, terraces & high traffic decks etc.

Apply the first coat which is a light layer of Lava 20 Top Coat (coverage rate 0.2 kg/m2) over the primed surface using a roller or trowel. While still wet, evenly sprinkle quartz onto the surface to stick. Allow it to dry (drying takes from 30 minutes to 2.5 hours depending on temperature) , then apply another heavier coat of Lava 20 Top Coat to fully seal & encapsulate the quartz, allow to dry to complete.

Coverage Rate

- Light coat: 0.2 kg/m2
- Heavy coat: 0.4 kg/m2

*(Coverage rate can vary on smooth or rough surfaces)

Applications of Top Coats

Type. 3 Lava 20 Primer & Top Coat Only

It is possible to use the Lava 20 Top Coats as a protective coating or high quality paint system that last longer than traditional paints. You can apply Lava 20 Top Coats on most surfaces. First, prime the surface and allow it to dry before applying Lava 20 Top Coats. Please note that this application is not covered under Owl Waterproofing 25 year warranty. To achieve the 25 Year Warranty you must use Lava 20 as specified.

Slip Risk Assessment (Pendulum Test Result for Lava 20 Anti Slip System)

Slip resistance is measured using Pendulum Test Values (PTV)

Standard recognised industry values are:

- 24 PTV and below = High slip risk (1 in 20 or higher chance of slipping)
- 25–35 PTV = Moderate slip risk (1 in 200 chance of slipping)
- 36 PTV and above = Low slip risk (1 in 1,000,000 chance of slipping)

Lava 20 Anti-Slip System Results:

- Dry: PTV 66 – Extremely low slip risk
- Wet: PTV 64 – Still extremely low slip risk

With Lava 20, the probability of slipping is nearly zero, even in wet conditions.

Temperatures Info & Material Storage

Working Life

25 Years +

Storage

Store products in a cool/ dry place and away from direct sunlight.
Temperature range: 0°C to 35°C

Temperatures Info & Material Storage

Safe Surface Temperature to Apply On	5°C to 35°C
Extreme Temperatures that it can Withstand	-30°C to 90°C
Storage of Chemical Solutions:	Store all materials as per the Material Safety Data Sheets (MSDS) and local fire and regulatory authority requirements.
Avoid Overloading:	Do not overload structure with past weight load.
Application Considerations:	• **Cold Conditions (2°C - 5°C) :** Application is possible but it will have longer drying time. • **Hot Conditions (above 35°C) :** Application is possible but not ideal as there is a risk of blistering due to vapor releasing from substrate and reduced working times. **To optimize curing:** Store materials in a warm location until use in cold weather, or in a cool location until use in hot weather.
Fire Safety:	Keep Owl Lava 20 products away from ignition sources such as fire, sparks, and flames. **No Smoking:** Avoid smoking near the material and the storage area.
MSDS Availability:	Ensure Material Safety Data Sheets (MSDS) are available on-site for all materials. Read container labels for additional safety and handling information. All MSDS/ SDS are always accessible online:

Safety Guidelines

Ventilation:	Ensure adequate ventilation during application to avoid inhalation of fumes. If ventilation is poor use carbon masks and PPE.
Personal Protective Equipment (PPE):	Wear protective clothing, gloves, chemical splash goggles, safety shoes, overalls, hardhats, and safety harnesses.
Professional Handling:	These products should only be handled and applied by trained professionals. Maintain copies of all relevant Material Safety Data Sheets (MSDS/ SDS) on-site for each component. Ensure that all crew members are trained on the safety information and procedures for the chemicals they will be working with, and that they understand first-aid procedures for accidents.
Compliance with Safety Regulations:	Follow your local safety regulations and building codes. It is the applicator's responsibility to comply with all relevant laws and safety standards.
Slippery Surfaces:	Be aware that coated areas can become extremely slippery when wet. Consider Lava 20 with an Anti Slip finish for traffic area.

For more detailed information, refer to the Product Data Sheets (TDS) and Material Safety Data Sheets (MSDS), or contact Owl Waterproofing Solutions at ***info@owlwaterproofing.co.uk***
or For U.S.A. : ***www.owlwaterproofing.com/technical-data-resources/***
For Ireland/ UK/ Europe: ***www.lava20waterproofing.com/technical-data-resources/***