



## Roka Lastic

### Highly Elastomeric Single Component Waterproof Coating for Concrete and Masonry

Roka Lastic is a one-part, cold-applied, seamless waterproofing membrane that offers enhanced UV and weather resistance, antifungal properties, high solar reflectance, and energy-saving benefits by reducing temperature. It is highly effective in bridging cracks and is well-suited for hot climates, providing excellent durability.

### Uses & Advantages

- Highly flexible with excellent gap bridging properties.
- Excellent adhesion to concrete & many other non-porous surfaces like steel, aluminum.
- UV resistant.
- High diffusion resistance against CO<sub>2</sub>.
- Water vapour permeable.
- Algae & Fungi resistant.
- Non-toxic once cured.



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## Technical Information:

Chemical Base	Acrylic dispersion
Appearance	Brush able consistency
Color	White. Other colors available on demand.
Solid Content	63 ± 2% by weight
Volatile Organic Compounds (VOC) Content	≤ 40 g/ltr
Density at 20%	1.25 ± 2% Kg/Liter
Ambient & Substrate Temperature	10°C - 40 °C
Relative Air Humidity	Maximum 80%
Dew Point	Beware of condensation. The surface temperature during application must be at least +3 °C above dew point.
Substrate Moisture Content	< 6 % moisture content. No rising moisture according to ASTM (Polythene Sheet). No water/moisture/condensation on the substrate.
Drying time (25 °C)	2 hours
Recoat Time (25 °C)	18 hours (touch dry)
Adhesion strength (ASTM 4541)	>3 MPA



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Tensile Strength (DIN 53504)	1.6 N/mm <sup>2</sup> (without fleece) 12.5 N/mm <sup>2</sup> (with fleece, Roka Poly Fleece)
Elongation at Break (DIN 53504)	> 600 % (without reinforcement) > 60 % (with fleece)
Initial Thermal Emittance (ASTM E 408)	≥ 0.90
Reaction to Fire	Euro class F
Solar Reflectance Index (ASTM E 408)	100
Initial Solar reflectance (ASTM C 1549)	≥ 0.82
Water Vapor Permeability (ISP 9932:91)	>25 g/m <sup>2</sup> /day
Capillary water absorption	0.01 kg/m <sup>2</sup> –h0.5
Crack bridging capability (EOTA TR)	Up to 2.5 mm
Shelf Life	12 months minimum if stored properly in un-opened & undamaged sealed packaging
Storage Conditions	Store in dry temperatures 5 °C to 35 °C in original packaging. Protect against direct sunlight & frost.
Service Temperature	-10 °C to +70 °C max. (without reinforcement) -15 °C to +80 °C max. (with reinforcement)



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## System Structure & Consumption:

### Waterproofing without Reinforcement:

2-3 coats are recommended for ideal results

- For a UV-resistant coating that prolongs the lifespan of ageing roofs.
- Serves as a reflective layer to improve energy efficiency.

### Waterproofing with Reinforcement (Roka Poly Fleece)

3-4 coats are recommended for ideal results.

- Suitable for areas with significant movement, uneven surfaces, or for covering cracks, joints, and seams on various substrates, including detailed sections.
- Ideal for providing cost-effective solutions in both new construction and renovation projects.

## Surface Condition:

- All the concrete & masonry surfaces should be sound, clean, free from dust, grease, curing/mold release agents & other minerals.
- The moisture content should not be more than 6%.
- New concrete structures must dry for a minimum of 28 days and achieve a compressive strength of 25 MPa, with a pull-off strength of at least 1.5 MPa.
- Metal surfaces like steel must be free of any contaminants.



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- The substrate & ambient temperatures should be between +8 to +40 °C.

## Surface Preparation:

- All the uneven masonry spots must be dry grinded for a smooth substrate.
- Any imperfections, blowholes, joints, or cracks exceeding 3 mm, as well as surface levelling, must be treated with suitable materials such as Roka Epoxy Mortar 550 or Roka Rep, according to the surface needs.
- Any oil or grease contamination must completely be removed mechanically.
- All metallic surfaces must be abraded to reveal bright metal so that the coating can bond firmly with the substrate.
- While applying on existing paint/coatings, all the oxidized layers must be removed.
- While applying tiles or cladding, any damaged sections must be repaired properly. Ensuring that all tiles are fastened securely is also important.

## Mixing:

Before application, mix Roka Lastic by hand or with a low-speed mixing drill equipped with an appropriate paddle for **1 minute** to ensure uniform consistency. Avoid excessive mixing to reduce the incorporation of air.



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## Priming:

For priming, dilute Roka Lastic by mixing in **20% water**, then apply it to the prepared substrate using a soft bristle paintbrush or roller. Ensure that the primer coat is fully cured and no longer tacky before beginning the application of the first coat.

## Application:

### Without Reinforcement:

Roka Lastic should be applied in 2-3 coats. One primer coat followed by 2 coats of Roka Lastic.

### With Reinforcement:

For an extended life cycle, Roka Lastic should be used with Roka Poly Fleece. After substrate preparation, apply the first coat of Roka Lastic followed by embedding the fleece (Roka Poly Fleece) while the coat is wet with an overlap of around 50mm. It is important to ensure that there are no air bubbles on the surface of the membrane. Then apply at least 2 coats of Roka Lastic at right angles to each other.

Airless spray machines can be used to apply Roka Lastic on larger applications.



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## Cleaning of Tools:

Roka Lastic can easily be removed using fresh water immediately after use. In the case of cured material, mechanical removal is required.

## Packaging:

Roka Lastic is supplied in 20kg containers.

## Storage:

Unopened and undamaged sealed packaging must be kept in dry conditions, away from direct sunlight exposure and between temperatures of 5 °C to 35 °C.

## Limitations:

- Roka Lastic should not be applied on roofs subjected to long term ponding water.
- Roka Latic is not recommended for pedestrian traffic. The system must be covered with tiles, stone plates or other appropriate elements if pedestrian traffic is unavoidable.
- It is important to use Roka Poly Fleece or other suitable membranes while applying in conditions with moderate to heavy movements or very low service temperature of -10 °C or below.
- If Roka Lastic is applied to substrates that are likely to exhibit outgassing during rising temperatures, coating may be subject to pin holes resulting in failure of the system.



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- Roka Poly Fleece can be used as total reinforcement or for partial reinforcement over dynamic cracks & joints
- Recommended slope of 2% should be provided to the substrate.

### Safety Measurements:

Wet Roka Lastic is toxic. The working area must be well ventilated during application and drying. Appropriate protective clothing, gloves, eye protection, and respiratory gear should be used. Applying barrier creams offers extra skin protection. If skin contact happens, wash the area with soap and water. If the product gets into the eyes, rinse them immediately with plenty of clean water and seek medical attention. Once cured, Roka Lastic is inert and harmless.

### Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.



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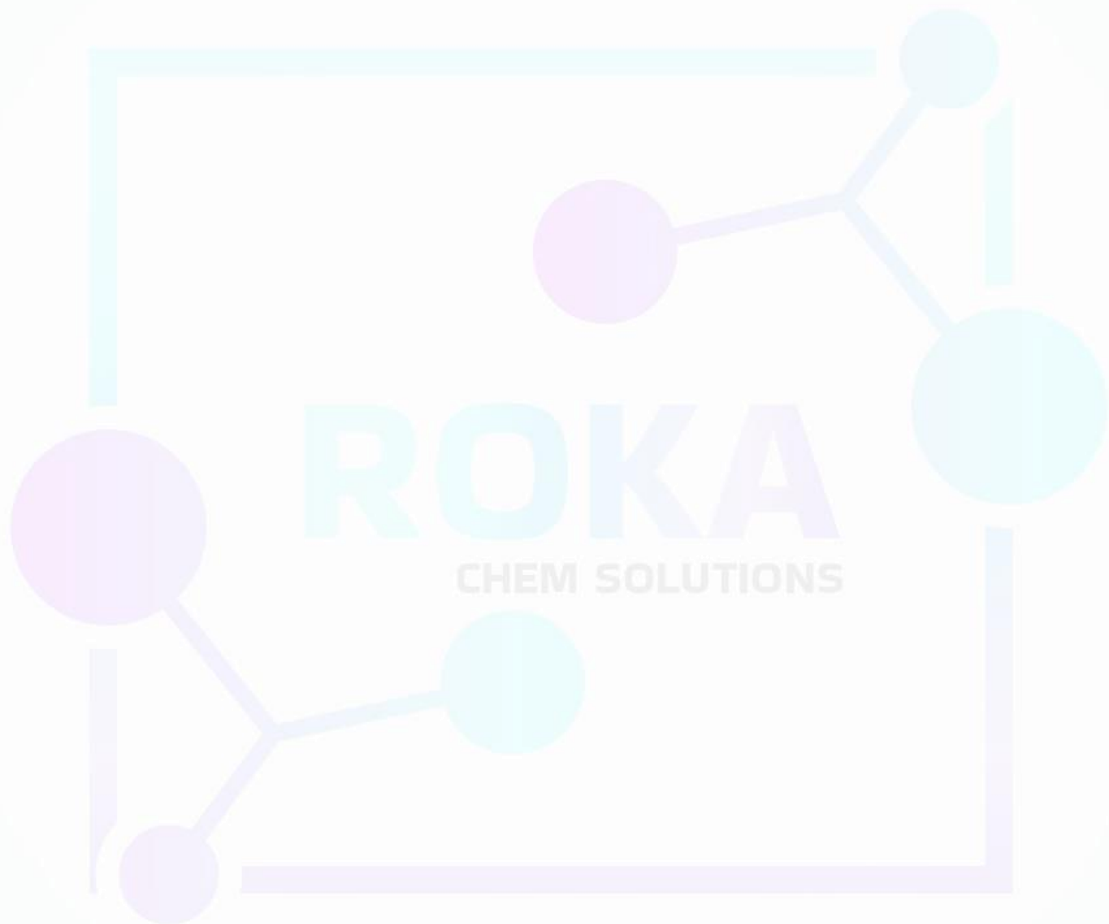
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