MOSHE 3000 REPEL

High-quality water repellent, ideal for mineral surfaces. Ready-to-use, alkaline and colorless, which does not change the appearance and texture of the surface

▶ Description

MOSHE 3000 REPEL is an excellent water repellent for many absorbent mineral substrates, which prevents infiltration and the appearance of moisture after application, in addition to sealing possible cracks (up to 2 mm wide) that may exist in the area. Silicone-based active principles have alkoxy-reactive groups, which, through the release of alcohol, create a permanent union with porous mineral materials, such as the silicate present in cement. It takes advantage of capillary action to better penetrate the pores of the material. This process generates a siliconized effect in the pores, preventing water from wetting them, without impairing the water vapor permeability of the applied surfaces.

Thus, the technique is not a superficial application (film)

- Which occurs through physical bonding and can be easily removed or damaged by regular use (contact) with the applied surface.

- It's not suitable for applications with positive or negative water pressure.

▶ Recommended for

Heavy clay products:

- Bricks
- Clay, concrete, fiber cement, and ceramic tiles

Porous mineral substrates:

- Concrete blocks and walls
- Unpolished marble or granite walls
- Monuments and sculptures

▶ Advantages

Solvent-free, water-based water repellent with long useful life and rapid development of water repellency. It maintains the natural appearance of the surface and has a highly durable and effective "drop" effect, in addition to not presenting a health risk, preventing fungi and bacteria caused by humidity and being resistant to UV rays. It's ready to use and easy to apply, just shake the product for 2 minutes before application. The product also provides a reduction of efflorescence and cracking by freezing-heating, good adherence for acrylic paints, and substrate respiration.

3-year warranty according to performance reports proven by third-party laboratories, except for project failures, structural failures, or misuse of the material

▶ Technical Data

Characteristics	
Density	1,04 g/cm³
Soluble in water	Yes
pH	13 – 14
Initial boiling point	100°C
Material properties	
Product type	Silicon-based solution
Aspect	Liquid
Color	Transparent
Storage	Store in a dry and ventilated place, protected from the sun, avoiding temperatures below 5°C and above 30°C
Shelf life	Packaged product shelf life, 1 year from the manufacture date
Packaging	1 L, 3.6 L, 5 L bottles, 10 L, 20 L, 50 L, 200 L drums, or 1000 L IBC
Odor	Characteristic

▶ Application Method

MOSHE 3000 REPEL must be applied without any addition of other product or dilution, as it is ready to use – with a short wool roller, brush, or low-pressure sprayer.

Application:

1) We recommend testing on a small area before final application.
2) Check the weather forecast. Avoid application in rainy weather or with risk of wetting, except when this application is in a protected area. Best application is with a wool paint roller or low pressure sprayer. Do not apply the product on a wet surface, it must be 100% dry.
3) Make sure that there is no unwanted dirt, dust, shedding or residue on the site. In the event of dirt that is difficult to remove, we recommend washing with a high-pressure jet, without using soap or chemical products, as the residues of these products may interfere with product penetration. The application site must be completely clean and dry.
4) For a perfect result, the product must be applied on the desired surface, in one generous coat (without failure to cover the substrate) for more vertical surfaces. To do this, mark out small areas so as not to run the risk of leaving a gap without the product, and in two coats for more horizontal surfaces, in this case using the system "wet over wet" or "wet over wet", demarcate small areas to avoid that the second coat is not able to penetrate the substrate by the beginning of the first coat, which can lead to undesirable crystallization of the second coat on the substrate surface, leaving stains on it.
5) Shake well before use. Apply the product using a low pressure sprayer (e.g.: 1 to 3 bar backpack pump) with nozzle no more than 20 cm from the application surface, short wool roller or brush. Apply until the surface is saturated.
6) Total cure occurs in up to 36 hours.

7) The immersion application model can be used for smaller or individual pieces. In the case of the immersion of parts, the product must be poured into a suitable container so as to cover the part completely and keep it immersed for about 15 minutes.

▶ Dosage

The average yield of the product is 10 m²/L per coat, depending on the roughness of the applied surface. The more porous, the lower the yield.

▶ Personal protective equipment

Wear a personal protective mask (ABEK or ABEK-P2 gas filter are recommended), nitrile or butyl rubber gloves, protective eyewear or face shield, impermeable protective clothing (gloves and aprons), and protective boots. If any symptoms of allergy, skin irritation, or eye contact, seek medical attention immediately.

Do not reuse the packaging for food purposes, and do not smoke while handling the product. Care should be taken with packages opened in the presence of children, whether or not there's a product inside. Do not let the product reach water, sewers, or soil.

▶ Transport Limitations

Maximum stacking of 3 buckets of 5, 10 or 15 Lts.

▶ Storage

Store under cover, protecting the buckets from rain and sun, keep the containers tightly closed and protected from damage.

▶ Attention

In very low temperatures, the product may freeze, as it is water-based.

▶ Application Precautions

- Total cleaning of the area where the product will be applied;
- When using the air less system, the triangular flex application nozzle should not be more than 20 cm from the application site.
- Without water pressure, the product resists to cracks of up to 2 mm.
- Over time, the product may lose the apparent "drop" effect. This condition occurs due to the accumulation of dust, dirt, and other floor residues, however, without impacting the product's performance on the substrate.
- Attention is required in fissures in the baseboards of walls, infiltrations in the peripheries of drains and pipes, structural fissures, identified lack of waterproofing and perforation in the substrate after application.
- After application, if the applied area is scraped by more than 2mm, a new application of the product is recommended.
- In case of application on concrete substrate, make sure that the curing of the concrete is complete, which occurs around 28 days after concreting.

- Do not apply in places with positive or negative water pressure.

▶ Certification and Technical Reports

Product certified by the HBC (Healthy Building Certificate) qualified and certified product, as a product that does not cause any risk to human health and the environment, therefore, a healthy and sustainable product. The HBC grants the MOSHE 3000 product the title of Qualified and Certified Product registered under the Code PROD20230110BRAPR0039 with validity until January 10, 2024.

According to SGS USA Report: Report of Product Testing Report – Interim Product: Moshe 3000 Stone Lab No.: 22-1808, it was verified that in the ASTM D6904 test – Wind-Driven Rain, that the samples were attached to a test box and exposed to water spray for approximately 24 hours. The water was sprayed at a dynamic pressure equivalent to 98 mph wind. After the test, there was no sign of visible leakage or any visible saturation of the tested blocks.

▶ Observations

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