



DESCRIPTION

It is a one-component, liquid plastic coating and flexible waterproofing material formulated for application on various surfaces. Its special formulation provides excellent resistance to weather conditions, resistance to fading, and excellent waterproofing properties for many surfaces. It is resistant to chalk and dirt, does not yellow, and bridges hairline cracks. It is resistant to shrinkage. Its white color provides protection against the UV rays of the sun. With its special formulation, it provides resistance to mold on surfaces coated with Kar Acr 1K Liquid Membrane. It can be easily applied by anyone on large, detailed, flat, and sloped roofs, terraces and balconies, eaves, channels and gutters, chimney edges, fascia, gutters, and drains. It does not create seams and is compatible with all types of surfaces. It is water-based and does not contain solvents

PRODUCT FEATURES	AREAS OF USE
100% elastomeric formulation Excellent adhesion Excellent weather resistance Excellent crack-bridging performance Excellent waterproofing performance UV resistant Resistant to mold and fungi Easy and fast application High elasticity	Suitable for properly prepared surfaces such as: Mineral-based roofs and terraces Concrete surfaces Eaves, channels, and gutters Waterproofing applications under ceramics ready to use! the product must not be mixed with water during application

IMPORTANT NOTICE

Property	Value
Relevant Standard	EN 14891:2017
Product Class	DMP01
Product System	Water-Based
Application Method	Brush, Roller, Airless Spray

Thinner	Thinning is not recommended
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PACKAGING DETAILS

- Packaging 5.00 kg/L or 20.00 kg/L
- Packaging Type Plastic Bucket

VOC COMPLIANCE

AIM	YES
OTC	YES
CARB	NO
SCAQMD	NO
MPI #	NO
LEED® 09CI	N/A
LEED® 09NC	N/A
LEED® 09CS	N/A
LEED® H	N/A

CLEANING INSTRUCTIONS

- Cleaning: Small spills and splatters should be cleaned with warm soapy water immediately before they dry. All coating tools and airless equipment should be cleaned with water. More serious spills should be collected with absorbent material and disposed of properly according to local and regional regulations.
- Thinning: Thinning is not recommended for waterproofing applications. However, if used as a primer, it can be thinned with 30% clean water. To use it as a primer, add 1.5 liters of clean water to a 5 kg/L container or 6.0 liters of clean water to a 20 kg/L container and mix until a homogeneous mixture is achieved.

TECHNICAL INFORMATION

Property	Value
Color	White, Gray, Red, Green, Brown

Tinting	Water-Based Universal Colorants (Only Pastel Colors!)
Product Type	100% Elastomeric Resin
Viscosity	60,000 ± 5,000 cP
pH	8.5 ± 0.5
Density	1.35 ± 0.5 g/cm ³
Touch Dry	2 - 4 hours
Waiting Between Coats	4 - 6 hours or the next day

- Drying Time (at 23°C and 50% Relative Humidity)

SURFACE PREPARATION

The entire surface area to be coated must be clean, dry, sound, and free from dirt, grease, oils, waxes, molds, and other surface contaminants that could adversely affect the performance of the coating material. Loose lime, chalked, cracked, or peeled coatings on previously coated surfaces should be removed by hand scraping, wire brushing, and/or pressure washing or sandblasting. For exterior surfaces, the entire surface area should be pressure-washed using a machine with at least 1500 - 2000 psi water pressure. More difficult areas should be manually scraped, sanded, wire-brushed, and/or cleaned with power equipment as described above. Loose rust, mill scale, rust particles, or white rust on metal surfaces should be cleaned using the methods described above. Damaged and/or delaminated surface areas should be repaired or replaced. Previously coated surfaces may require priming, depending on the overall condition of the existing coating. All coating edges should be sanded to a dull finish to effectively matte the existing gloss. All bare or new surface areas must be appropriately primed with an appropriate primer before applying Kar Acr 1K Liquid Membrane. Kar Acr 1K Liquid Membrane can be used as a primer by diluting it by 30%. However, it should never be mixed with water for the final waterproofing application. If there is a risk of rain within 24 hours before and after application, do not apply. The surface temperature should be at least 3°C above the dew point before applying. In cold weather applications, surface and ambient temperature should be increased using heaters, and Kar Acr 1K Liquid Membrane packaging should be stored at +20°C the night before. Mold-affected surface areas should be carefully cleaned with a commercial mold remover and/or cleaning product following the application and safety instructions. Afterwards, rinse thoroughly with clean water and allow to dry completely for at least 24 hours. CAUTION! Roof surfaces may become slippery, especially when wet. Avoid walking on the roof when moisture is present. Review all safety guidelines regarding working or walking on roof surfaces. warning! scraping, sanding, or removing old coatings may release lead dust. Lead is toxic. Exposure to lead dust may cause serious illnesses, including brain damage in children. exposure of pregnant women should be prevented. use a ce-approved respirator to control exposure. clean carefully with a hepa vacuum and wet mop.

PRODUCT APPLICATION

Kar Acr 1K Liquid Membrane, a 100% elastomeric resin-based elastic waterproofing material, can be easily applied with a high-quality brush, roller, or airless spray equipment. Before application, mix the product with a mechanical mixer until it becomes homogeneous at a low speed. For best results, it is recommended to apply at least 2 coats in layers with a wet thickness of at least 3 mm. The touch-dry time between coats is reached within 2 - 4 hours, but the second coat should be applied a minimum of 4 - 6 hours after the first coat. This time may be extended to the next day depending on the application conditions. To ensure consistency of color, it is recommended to work in batches. To verify color consistency in different batch productions, perform color verification by applying different batch products in a small area before application. On most sun-exposed or hot surfaces, moistening the application surface lightly with cold water may be required to cool the hot surface. This will prevent excessive fast drying and possible burning of the roof coating. Do not oversaturate the surface. The coating can only be applied to slightly damp surfaces and will not adhere to overly saturated surfaces. If using a brush, for large areas, it is recommended to apply with the area partition method, reducing the area and ensuring bonding between sections. In roller applications, the two coats should be applied perpendicular to each other. (If the first coat is applied parallel to the application surface, the second coat should be applied perpendicular to the application surface.) For airless spray applications, the material should be pumped with a nozzle diameter of 0.021 - 0.030 and a flow rate of 2 gallons per minute. When a roll application is immediately followed by surface smoothing, proper adhesion is ensured, and this application is recommended. Surface and ambient temperature should be between 5°C and 35°C during application. Do not apply in rainy or very humid weather during the 24 hours before and after application. If the coating surface is exposed to rain or water before it is completely dry and damaged, it should be cleaned immediately with hot water without allowing it to dry.

RECOMMENDED PRIMERS

Before the application of Kar Acr 1K Liquid Membrane, the following Kar Kim products are recommended as primers on surfaces that have been well prepared for waterproofing: Previously Uncoated Cement Surfaces: Depending on the surface moisture, Kar Floor series primer types Alkali-resistant Kar Primer Previously Coated Cement Surfaces: Depending on the surface moisture, Kar Floor series primer types Alkali-resistant Kar Primer Previously Uncoated Asphalt Shingle & Gravel Roofs: Depending on the surface moisture, Kar Floor series primer types Previously Coated Asphalt Shingle & Gravel Roofs: Alkali-resistant Kar Primer Previously Uncoated Metal Roofs: Metal Surface Primers Antipas Metal Surface Primers Previously Coated Metal Roofs: Alkali-resistant Kar Primer

PERFORMANCE

Initial Bond Strength	$\geq 0.5 \text{ N/mm}^2$
Adhesion Strength After Heat Aging	$\geq 0.5 \text{ N/mm}^2$
Adhesion Strength After Water Aging	$\geq 0.5 \text{ N/mm}^2$
Adhesion Strength After Freeze-Thaw Cycles	$\geq 0.5 \text{ N/mm}^2$
Adhesion Strength after Contact with Lime Water	$\geq 0.5 \text{ N/mm}^2$

Adhesion Strength after Contact with Chlorinated Water	$\geq 0.5 \text{ N/mm}^2$
Crack Bridging	$\geq 2 \text{ mm}$

APPLICATION EQUIPMENT

- Brush Application: Apply using high-quality nylon, polyester, or nylon/polyester blend brush.
- Roller Application: Depending on the texture and surface porosity, apply using a synthetic or lamb's wool roller with a nap of ¼ - 1 inch
- Spray Application: Pump Gas or Electric Airless Spray Machine Capacity Should have a pumping capacity of 2 gallons per minute Tip Reversible, two-sided, with a diameter of 0.021 – 0.030 inches Pressure Minimum 2500 psi Hose ¼ inch (6.3 mm) - ¾ inch (10 mm)

PRODUCT LIMITATIONS

- Not suitable for applications exposed to abrasive conditions.
- The product has no chemical resistance.
- Avoid using the product in areas exposed to extreme heat

CONSUMPTION – SHELF LIFE – STORAGE

- Consumption 1.40 kg/m² for a single coat (depending on the surface's absorbency)
- Shelf-Life Store in original packaging in a dry environment
- between +5°C and +30°C.

SAFETY & PRECAUTIONS

Avoid prolonged contact with the skin and inhalation of dust, vapors, and/or spray mists. It can irritate the eyes. **USE WITH ADEQUATE VENTILATION!** Ensure clean air intake during application and drying. If you experience eye irritation, headaches, or dizziness, or if air monitoring indicates that vapor/mist levels exceed applicable limits during and after application, use a properly fitted NIOSH/MSHA approved respirator during application. Follow respirator manufacturer's instructions for respirator use. Do not touch eyes, skin, or clothing. Wash thoroughly after handling it and before eating, drinking, or smoking. Close container after each use.

FIRST AID

- In case of skin contact, wash thoroughly with plenty of lukewarm soapy water.
- For eye contact, rinse for 15 minutes with plenty of water and seek medical attention immediately.
- If breathing difficulties occur, move to fresh air. If symptoms persist, seek medical attention.
- Do not induce vomiting if swallowed; seek medical attention immediately.

- Keep out of reach of children

WARRANTY & DISCLAIMER

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