



DESCRIPTION

Item 1.3.5.1 - HYBRID POLYMER BASED, SINGLE COMPONENT, SOLVENT-FREE, UV RESISTANT WATERPROOFING MATERIAL A single-component waterproofing material modified with new generation hybrid resins, remains continuously elastic, can be applied even to damp surfaces, UV resistant, solvent and water-free, 100% solids, and cures by reacting with moisture in the air. This hybrid polymer-based material has negative and positive water resistance, can be applied to wet surfaces at 5°C and above, requires no primer, features +2 mm crack bridging, is isocyanate-free, and is used for waterproofing on floors with medium pedestrian traffic, drinking and utility water tanks, terraces, roofs, balconies, gutters, foundation and curtain walls, under-ceramic waterproofing, exterior facades, over thermal insulation surface cracks, and on wood and metal sheet surfaces. After application, it creates a seamless, UV-resistant, robust, and crack-bridging structure. Due to its elastomeric properties, its performance remains the same even at low temperatures.

PRODUCT FEATURES	AREAS OF USE
Hybrid polymer-based structure. Excellent UV resistance. Solvent and water-free. Does not require thinners. 100% solid content. Adhesion to damp surfaces even without a primer. Negative and positive directional waterproofing. Maintains elasticity even at low temperatures. High resistance to frost. Seamless application (no joints). High resistance to water ponding on terraces and roofs. Reduces labor and time costs; easy and fast application.	Suitable for use on the following properly prepared surfaces: Factory and warehouse floors, surfaces with medium pedestrian traffic, potable and utility water tanks, terraces, roofs, balconies and drainage channels, foundations and retaining walls, under ceramic waterproofing, exterior facades of buildings, over thermal insulation surface cracks, bitumen and asphalt based surfaces, wooden and sheet metal surfaces for waterproofing purposes. ready to use! follow the application instructions during product application! consult us for all other application surfaces

IMPORTANT NOTICE

Related Standard	EN 1504-2
Product Class	Item 1.3, 5.1

Product System	Hybrid polymer
Application Thickness	Minimum 1 mm
Opening to Pedestrian Traffic	24 hours
Waiting Time Between Coats	8 hours
Service Temperature	$\$(-40^{\circ}\text{C})-(+80^{\circ}\text{C})\$$
Application Temperature	$\$(-5^{\circ}\text{C})-(+35^{\circ}\text{C})\$$
Moisture Tolerance	< 8% (by weight)

PACKAGING DETAILS

- 20.00 kg Tin bucket

CLEANING INSTRUCTIONS

- In small spills, it should be cleaned immediately with water before hardening is allowed, all application tools (leveling screed, steel trowel, leveling foot, hand mixer) should be cleaned with water.
- More serious spills should be contained and removed with disposable absorbent material. Contaminated and unusable contents should be disposed of in accordance with local and regional regulations

TECHNICAL INFORMATION

Property	Value
Color	Transparent
Density	1.35 ± 0.02 kg/L
Elongation at Break	≥ 350%
Crack Bridging	≥ 2 mm
Adhesion Strength	≥ 2.0 N/mm ²
Shore A Hardness	60
Skin Formation Time	30 ± 5 minutes
Water Absorption	< 2.0%

Initial Curing (at 25°C & 50% RH)	5 hours
Full Cure Time	7 days

SURFACE PREPARATION

Before application, the surface should be checked and if there are areas requiring repair on the surface, these surfaces should first be repaired with Kar Repair series repair mortars. Waterproofing should be started 7 days after the process. The surface to be applied must be dry. If there is water accumulation or puddling, it should be removed. Sharp points and corners on the application surface should be rounded. Chamfers (cement-based) with a diameter of at least 5 cm should be made on corners and edges. The concrete to be applied should have a compressive strength of min. 25 N/mm² and tensile strength of min. 1.5 N/mm². The moisture content in the concrete should be less than 4%. An appropriate joint plan should be made considering possible movements and necessary joints should be transferred to the coating. Defects larger than 5 mm on the application surface and tie rod holes on retaining walls should be repaired by filling with suitable repair mortars. If there is water, water vapor or salt efflorescence from the negative side, application should not be made on that surface. Roughening should be done to increase adhesion on excessively impermeable (high strength class) concrete and retaining walls. High spots on the surface should be cleaned by sanding. Surfaces should be roughened mechanically (blastrac or milling) and cleaned from dust with a vacuum cleaner. During application, relative humidity should not exceed 50% at +10°C and 80% at +30°C. The temperature of the application surface should be between +10°C and +30°C. The temperature of the application surface should be 3°C above the dew point. In applications to be carried out in cold weather, ambient and surface temperatures should be increased with the help of heaters, and Kar Proof ALF 1000 packages should be stored at +20°C one night in advance.

PRODUCT APPLICATION

Before and during the application of Kar Proof ALF 1000, work clothes suitable for occupational health and safety rules should be worn, and suitable goggles and masks should be used. No other material should be added into Kar Proof ALF 1000 before application and it should not be diluted. The ready-to-use product can be spread onto the surface with a squeegee and applied with a brush, short-haired roller or airless spraying equipment. Ensure that a continuous and non-porous layer covers the surface. It should be applied in two coats. After the first coat is applied, the second coat should be applied perpendicular to the first application coat after 4-10 hours (after it becomes walkable).

APPLICATION NOTES

If Kar Proof ALF 1000 application was made to potable or utility water tanks and the water contains chlorine, the tank can be filled with water 7 days after the application is completed. If the water used does not contain chlorine, the tank can be filled with water 5 days after the application is completed. Do not use below the permitted minimum temperature for the material to complete hardening. Low temperatures will slow hardening, while high temperatures will accelerate hardening. Pot life will also vary depending on temperatures. Kar Proof ALF 1000 should not be applied to frozen, thawing or surfaces at risk of frost within 24 hours. It should not be applied under direct sunlight, strong wind or on hot (heated) surfaces. In order

to prevent airflow in the application environment, the area around the application area and roof should be covered, doors and windows should be kept closed. Only openings that will provide healthy airflow should be left in the area. Fresh air should be continuously supplied into the storage during application. Applicators should take breaks at short intervals and go outside the storage to get fresh air. It is recommended to perform an adhesion test before application for natural stones, ceramics and similar glossy surfaces whose polishing process and material are unknown and not previously applied. Irregularities and glossy/non-absorbent parts on the application surface should be roughened with suitable tools (floor milling machines, sanders). After curing, Kar Proof ALF 1000 is completely healthy.

PRODUCT LIMITATIONS

The product should not be used in areas exposed to intense heat. Do not add water to the product. The product should not be applied under rain. The concrete to be applied should have a compressive strength of min. 25 N/mm² and tensile strength of min. 1.5 N/mm². The moisture content in the concrete should be less than 5%. Smoking should not be done during application and work should be carried out away from naked flames in well-ventilated environments. Continuous ventilation should be provided in closed areas and carbon active masks should be used. It should be remembered that solvents are heavier than air and therefore will circulate on the ground surface. During application, relative humidity should not exceed 50% at +10°C and 80% at +30°C. The temperature of the application surface should be between +10°C and +30°C. Do not use below the permitted minimum temperature for the product to complete setting. Low temperatures will slow setting, while high temperatures will accelerate setting. Workability time will also vary depending on temperature. Opened packages should be completely consumed and should not be left half finished. • The product is not subject to ADR.

CONSUMPTION – SHELF LIFE – STORAGE

- Waterproofing material
- (One coat – 1 mm thickness)
- Kar Proof ALF 1000: 1.30 – 1.50 kg/m² SHELF LIFE: It should be stored in a dry environment between +5°C and +35°C in its original packaging. It has a shelf life of at least twelve months in unopened packaging in a dry, cool and closed place. When not in use, the package lid should be tightly closed

SAFETY & PRECAUTIONS

Avoid prolonged skin contact and inhalation of dust, vapor and/or spray fumes. Causes eye irritation. Use with adequate ventilation. Ensure fresh air entry during application and drying. If you experience tearing, headache, dizziness or if meteorological results indicate vapor/mist levels above applicable limits, use a properly fitted respirator (CE approved) during and after application. Follow the respirator manufacturer's instructions for respirator use. Avoid contact with eyes, skin and clothing. Use chemical safety goggles or face shield for suitable eye protection. Do not eat or smoke without thoroughly washing your hands with plenty of water after handling. Close the container after each use

FIRST AID

- In case of skin contact, wash thoroughly with plenty of warm soapy water. For eye contact, rinse with plenty of water for 15 minutes and seek medical attention immediately. If you have difficulty breathing, leave the area to get fresh air. If difficulty persists, seek medical attention immediately. If swallowed, do not try to induce vomiting, seek medical attention immediately.

WARRANTY & DISCLAIMER

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