



keep alu

Ready to use, solvent based, UV resistant, highly flexible,
silver colored waterproofing agent



HIGH PERFORMANCE
COPOLYMER



keep alu



Product description

KEEP ALU is an innovative, versatile, highly flexible, silver colored waterproofing agent derived from the proprietary HPC Technology (High Performance Copolymer). This solvent based product is ready to use and extremely UV resistant thanks to its state-of-the-art copolymer. KEEP ALU features an intrinsic silver color, high cold flexibility and the enhanced ability to withstand very low temperatures down to -40°C (-40°F).

Uses

KEEP ALU is CE marked, meeting European Standard EN 1504-2 "Products and systems for the protection and repair of concrete structures" and being compliant with the PI-MC-IR principles. KEEP ALU is recommended for the waterproofing of concrete substrates such as roof slabs, flat and sloped roofs, fiber cement panels. KEEP ALU is also suitable for sheet metal and as external protective coating for metal tanks. In addition, it may be used to repair and renovate aged bitumen roofing.

Features / Benefits

KEEP ALU provides effective waterproof protection and may be applied even in sub-zero temperatures down to -5°C (23°F). Thanks to its solar reflectivity, once cured KEEP ALU helps to substantially reduce heat buildup. Its special innovative copolymer is also highly resistant to UV rays. Unlike bitumen felts protected with traditional silver paints, being elastic and flexible, the silver waterproofing layer does not undergo the so-called "alligatoring"; therefore, less maintenance is required. The extreme resistance to standing water resulting from the HPC Technology makes KEEP ALU suitable also for flat (zero slope) surfaces. KEEP ALU features very high dirt pickup resistance.

Caution

Allow new concrete to cure fully and avoid applying to substrates that are either moist or subject to rising damp and/or evaporative flows. Ensure that bitumen substrates are fully cured and properly aged (in any case not less than 6 months), as oil seepage may affect the product binding and appearance and reduce its solar reflectivity. Stir KEEP ALU before using and apply at temperatures between -5°C and $+35^{\circ}\text{C}$ (23°F / 95°F). Avoid applying during the hotter part of the day and onto overly sunlit substrates, both before and during application. Do not apply if rain is expected. The appearance of the finished product may vary depending on the application method. Tools may be cleaned with white spirit or with the specific ICODIL SX solvent.





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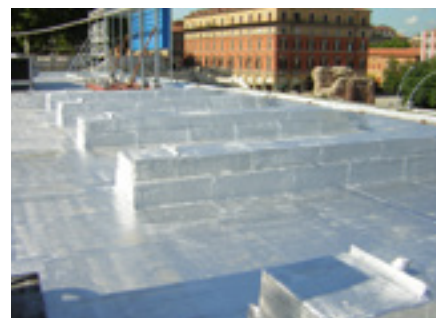
Surface preparation

Clean surface thoroughly and remove dust, loose material or non-adhering particles, grease, oil and anything that may affect proper adhesion. Substrates must be cured, dry and not exposed to rising damp or evaporative flows.

Concrete substrates must be sound and solid. Seal control and isolation joints with ICOJOINT MS sealant cartridge. Porous or chalking concrete must be primed with a coat of KEEP ALU diluted with 50% ICODIL SX at a rate of approximately 250-300 gr/sqm.

For metal substrates remove oxidized spots and apply ICOPOX PM 102 passivator at a rate of 150 gr/sqm.

KEEP ALU can be directly applied to bitumen substrates with no need for a primer, as long as they are properly aged (at least 6 months). Ensure that overlaps and upturns are fully bonded. Roofing felts that tend to delaminate or creep also need to be repaired beforehand.



Application instructions

KEEP ALU is by its very nature a versatile product. Once the substrate has been accurately prepared as per above and the primer (if needed) has properly dried, KEEP ALU shall be used as is.

To waterproof a concrete substrate, apply two or more coats at an overall rate of no less than 2 kg/sqm.

For metal substrates and seasoned bitumen roofing felts (aged at least 6 months), the spread rate should range between 0.8 and 2.0 kg/sqm in two or more coats.

Areas that are potentially subject to mechanical strain should be reinforced with the 100-gr/sqm ICOARM TNT ROLL nonwoven fleece.



PRODUCT PERFORMANCES

ACCORDING TO HARMONIZED STANDARD EN 1504-2:2004

TEST METHOD	ESSENTIAL CHARACTERISTIC	REQUIREMENT
EN 1062-6	Permeability to CO ₂	S _D > 50m
EN ISO 7783-1-2	Water vapor permeability	CLASS II (5 < S _D < 50m)
EN 1062-3	Capillary absorption and water permeability	w < 0.1 Kg/m ² · h ^{0.5}
EN 1542	Bond strength by pull off test	≥ 0.8 MPa
EN 1062-11:2002	Exposure to artificial atmospheric agents	No visible defects
EN 1062-7	Crack bridging properties	Class A5(23°C) A5(0°C) A5(-5°C)
EN 13501-1	Reaction to fire	Euroclass E

TECHNICAL DATA

PRODUCT FEATURE	MEASURE	UNIT
Type of product	One component	
Density	1.10 (± 0.05)	kg/lt
Solid content	58.5 (± 0.6)	%
Dust-free (+23°C, 50% R.H.)	20	min
Curing (+23°C, 50% R.H.)	6	hrs
Minimum Film Forming Temperature	-5	°C
Tensile elongation	420 (± 50)	%
Cold flexibility	-40	°C
Bond strength to concrete	≥ 1.5	MPa
Bond strength to metal	≥ 0.7	MPa
Number of coats (minimum)	2	No.
Spread rate per coat (minimum)	0.4 / 1.0	kg/sqm
Dry film thickness (2 kg/sqm)	0.9 (± 0.1)	mm
Color	Silver	
Shelf Life	12	months

Safety instructions

See Material Safety Data Sheet (MSDS).

Storage

Store in a dry, well-ventilated place. Keep from freezing.

Packaging

4, 18-kg metal cans

Color

Silver



Please e-mail us at: assistenza@icobititalia.com

Our technical service will address your requests.

Ensure that the TDS is up to date: the latest version can be viewed and downloaded at icobit.com

The manufacturer reserves the right to amend the product specifications without notice. The above performances were measured according to the standards in force at the time of issue and represent the average results of our tests. Although highly reliable, they do not constitute a binding commitment nor liability for Icobit Italia S.r.l. The purchaser and the end consumer acknowledge responsibility for the product suitability to the intended use.

PACKAGING



APPLICATION METHODS



ROLLER



BRUSH



AIRLESS SPRAY



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