

# Hardfloor varnish AK-S

**Technical Specification**

Date of Issue: 21/05/2025

Version Number: 1<sup>st</sup>

Acrylic varnish for stamped–cementitious floors, micro-cement screeds, natural stones and artificial building materials



HARDFLOOR VARNISH AK-S is a high-quality, one-component, transparent acrylic varnish, ideal for strengthening and waterproofing stamped floors, micro cement screeds, natural stones (slates, porous stones), industrial or cementitious floors, Karystos or Malta slabs, tiles, bricks and other natural or artificial building materials.

It offers strong adhesion, deep impregnation, elasticity, water repellency and resistance to harsh weather conditions, while protecting the application surface from moisture, stains, UV radiation and dirt absorption.

The varnish offers a touch dry time of 10 minutes, can be recoated after 2-3 hours and fully cures within 24 hours.

The product is ready to use, easy to apply, provides long-lasting protection and enhances the surface by highlighting its natural beauty. It is suitable for both exterior and interior use.

## Field of Application

- Stamped floors
- Micro cement screeds
- Penetration of natural stones (slates, porous stones, etc.)
- Stones, tiles, Karystos or Malta slabs and bricks
- Decorative bricks and other natural or artificial building materials
- Industrial and cementitious floors, concrete, masonry, decorative plaster, concrete elements, etc.
- Suitable for interior and exterior use
- Reinforcement of weak and weathered construction surfaces

## Properties – Advantages

- Enhances and restores the natural color of the materials, maintaining their original shades
- Does not form a film, does not peel, flake, or yellow over time
- Contains UV filters for protection against sunlight and discoloration prevention
- Offers strong adhesion and resistance to tough conditions
- Excellent resistance to impacts, water, alkalis, intense sunlight and abrasion, preventing dust formation
- Protects the surface from staining caused by rain, moisture, pollutants, fungi, mold and other environmental damage

## Physical & Technical Characteristics

Property	Value
Viscosity	15±2 sec (CF4, +25°C)
Density	0.852±0.005 kg/L (+20°C)

## Application Method – Instructions

### A) Surface Preparation

Ensure the surface is free of moisture (moisture content < 4%), clean, dry and free of dust, loose materials, grease and dirt. On highly absorbent surfaces, it is recommended to prime with water-based HARDFLOOR VARNISH PR or solvent-based PRIMER DUROCOAT. Surfaces that have been grouted should be cleaned 3-4 weeks after grouting, using a stiff brush and ATCLACOLL's ATCLACLEAN-M cleaner (if necessary), in order to remove any possible residues. Protect any surfaces that may be affected by solvents, such as joint sealants, bituminous materials, polystyrene, etc., using masking tape or other appropriate means.

### B) Application

Apply two coats of HARDFLOOR VARNISH AK-S without dilution using a brush, roller, or spray gun on exterior and interior surfaces. The second coat should be applied 3 hours after the first.

Do not apply the product at temperatures below +5°C or above +40°C and/or relative humidity above 65%.

## Dilution

Not required. Ready to use.



Βιομηχανία βερνικιών & χρωμάτων varnishes & paints industry



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## Application Conditions

Substrate moisture must be less than 4% and ambient humidity below 65%. High atmospheric humidity may affect product polymerization. Do not apply at substrate or ambient temperatures below +5°C or above +40°C. The coated surface must not come into contact with water for 24 hours.

## Drying – Recoating

**Touch dry:** 10 minutes.

**Recoating:** 2–3 hours.

**Full cure:** 24 hours.

Drying and recoating times depend on environmental conditions (temperature and humidity).

## Coverage

7–8 m<sup>2</sup> per liter on properly prepared surfaces

## Gloss level

Available in MATTE.

## Shelf Life – Storage

Shelf life up to 12 months from production date stored in the original sealed container in a dry shaded environment at 5°C to 40°C. Reseal tightly after use.

## Tool Cleaning

Clean up tools and equipment with VERNILAC's nitrocellulose thinner N1 or ACETON, immediately after use. Do not empty waste solvent into drains or watercourses.

## Waste Management

Do not dispose leftover paint with household waste or in the sewage system. Dispose of empty packaging according to local regulations. Seek advice from local authorities or national waste disposal services.

## Volatile Organic Compounds (V.O.C.)

The maximum EU limit value (Directive 2004/42/CE) for this product [Category A/h (Binding primers), Type SB] is 750 g/l (2010). This product contains maximum 749 g/l VOC (ready for use).

## Packaging

Available in containers of 1 L, 5 L and 20 L.

## Safety Instructions

For instructions on safe handling, see the container label. For detailed instructions on the hazards regarding storage, disposal, and safe use, please refer to the latest Safety Data Sheet which contains ecological, toxicological and other data on safety when handling the product. Poison Center for GREECE: 210 7793 777 / for CYPRUS 1401.

All details, technical data, advice and information provided in this manual are the result of laboratory measurements, numerous tests, long-term research, multiple technical applications, and many years of experience. This information and specifications should be considered as recommendations, as there may be discrepancies between them. The company tries to ensure the accuracy of the information provided, but product specifications are subject to change without notice and may differ from those shown. In practice, differences in materials, substrates and application conditions can affect the suitability of materials for the specific use and working conditions. No liability whatsoever can be established against the company on the basis of the information, written instructions or any other form of instructions provided herein. It is the responsibility of the user to confirm that the material is suitable for the intended use, and consequently, the user is solely responsible for the results obtained from the use of the product. Moreover, the Company is not responsible for normal wear and tear or damage caused by environmental or other improper conditions. The limitations and conditions of the disclaimer apply in line with the applicable legislation. The company maintains a Technical Support Department, which is the only one responsible for providing technical advice and solutions to problems. Requests to the Technical Support Department are addressed and answered only in writing. To access the latest version of the Technical Data Sheet, which replaces all previous versions, please visit our official website at [www.vernilac.gr](http://www.vernilac.gr).



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