

# Hardfloor varnish AK-W

**Technical Specifications**  
Date of issue: 18/07/2025  
Version Number: 1th

Nanomolecular waterborne acrylic varnish for micro cement screeds and cementitious substrates



One-component, nanomolecular clear waterborne varnish based on new-generation self-crosslinking acrylic resins. Ideal for the protection and decoration of micro cement screeds and cementitious substrates. It is a high-performance product with excellent hardness and outstanding resistance to mechanical stress, hot tire pick-up, harsh weather conditions, water, oils, grease, pollutants, household cleaners and intense UV radiation. Adheres strongly without peeling, flaking, or cracking. It does not yellow and preserves the original color and natural sheen of the surface over time. Suitable for use on both walls and floors, indoors and outdoors, preventing stain absorption and facilitating easy cleaning. Thanks to its almost imperceptible odor, it is ideal for use in poorly ventilated areas and ensures fast and easy application. Suitable for surfaces previously primed with HARDFLOOR VARNISH PR.

## Properties - Advantages

- Protection against water, UV radiation and harsh weather conditions: Does not yellow and keeps surfaces in excellent condition, while resisting wear, temperature fluctuations and mechanical stress without peeling.
- High adhesion and surface hardness: Forms a durable protective film against moisture, dirt and mild detergents.
- Transparent finish does not alter natural shades: Enhances the color of the substrate and gives the surface a subtle sheen.
- Virtually odorless: Ideal for interior and exterior use, safe for application in enclosed spaces with poor ventilation, ensuring comfort during both application and drying.
- Mechanical durability: Protects against scratches, impacts, abrasion and daily wear.
- Excellent spreadability: High coverage and excellent workability, easily covers large surfaces with minimal product quantity, ensuring high efficiency and cost-effectiveness.

## Physical / Technical Characteristics

PROPERTY	VALUE
Viscosity	30 ± 5 sec (CF4, 25°C)
Density	1.026 ± 0.005 kg/L (20°C)

## Instructions for Use

### a. Surface Preparation

The surface must be completely clean, thoroughly dry and free of dust and mold before application. In case of mold, use VERNILAC's FUNGICIDE CLEANER. The substrate must be stable; all loose materials and residues such as dust oils and stagnant water. The surface must be properly insulated and free from continuous rising damp. For enhanced protection or on highly absorbent surfaces such as micro cement screeds, apply VERNILAC's HARDFLOOR VARNISH PR primer.

### b. Application

Stir thoroughly before and during use. Apply two coats using a brush, roller, or airless spray without dilution. The second coat can be applied after 2-3 hours. On new surfaces, dilute the first coat with 10-20% clean water to improve penetration. Do not apply at temperatures below +10°C or above +40°C, or at relative humidity levels above 80%.

### Dilution

Ready to use. If necessary, dilute up to 5% by volume with clean water.

### Application Conditions

Ambient and surface temperature must be between +10°C and +40°C and substrate humidity is below 80%.

### Drying – Recoating

**Touch dry:** 10 minutes

**Recoating:** 3 hours

In low temperatures or high humidity levels, drying times are extended.



# Hardfloor varnish AK-W

**Technical Specifications**  
Date of issue: 18/07/2025  
Version Number: 1th

## Recommendations

- Surfaces with trapped moisture must be completely dry before application
- Do not apply at temperatures below +10°C or above +40°C and/or when substrate humidity exceeds 80%
- In case the application surface has mold, disinfect with VERNILAC's FUNGICIDE CLEANER
- If the product is to be used on previously painted surfaces, they must first be sanded mechanically and then cleaned before application
- For application on fresh micro cement screeds, allow the surface to dry thoroughly to reduce alkalinity
- Cementitious surfaces must be allowed to dry for at least 21 days before applying HARDFLOOR VARNISH AK-W

## Coverage

Approximately 7-10 m<sup>2</sup>/L per coat on properly prepared surfaces.

## 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. Protect from frost. Reseal tightly after use.

## Tool Cleaning

Tools should be cleaned with water immediately after use.

## 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 (VOC)

The maximum EU limit value (Directive 2004/42/CE) for this product [Category A/i (One-pack performance coatings), Type WB] is 140 g/l (2010). This product contains maximum 80 g/l VOC (ready for use).

## Packaging

Available in 1 kg, 5 kg, and 20 kg containers.

## Safety information

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 the information provided in this technical data sheet is the result of the scientific knowledge of the company's personnel and the practical experience in product application. This document doesn't express or imply a guarantee as the company cannot control and bears no responsibility for the conditions and the manner of application, the adjustment and the modification of the product when used by the customer. The customer must confirm by his own means that the product is suitable for the intended use. The current version of technical data sheet withdraws all previous versions for this product.

