



# ACQUA SHIELD LI

High performance  
transparent protective coating  
for concrete flooring



konstruktive • **leidenschaft**



Strada Spartafino, 2  
12016 Peveragno (CN)



ph. +39 0171 38.38.00  
Fax +39 0171 33.93.95



info@vimark.com  
www.vimark.com



## DESCRIPTION

**ACQUASHIELD LI** is a high performance, transparent, single-component liquid product for protecting, sealing industrial floors and internal cement surfaces. This surface treatment based on hybrid Nano Lithium™, when applied on mineral industrial flooring, solidifies and protects increasing the abrasion resistance, creating a tough waterproof surface, dust-repellent and resistant to chemical substances. Guaranteeing a clear finish with a shiny effect, with easy application, ideal where a maximum protection is needed in a minimum time.

It can be applied in manufacturing facilities, warehouses, distribution centres, food processing plants, cold or refrigerated rooms, parking lots, hangars, showrooms, offices, shopping malls and in all areas where there is a need to increase the resistance and the durability of concrete.

When applied maintenance, repair and cleaning costs are reduced, it is washable with a damp cloth and floor cleaning machines.

The product is also used in polishing cycles of concrete and industrial floors.

For its special chemical nature, **ACQUASHIELD LI** creates a permanent bond with concrete surfaces, penetrating deeply into the capillary pores guaranteeing a uniform hardening with no flaking or chipping.

## COMPOSITION

**ACQUASHIELD LI** is a single-component liquid inorganic/organic hybrid formula based on special Nano-lithium silicates stabilized in aqueous dispersion.

## MIXING AND APPLICATION

### SURFACE PREPARATION

**ACQUASHIELD LI** can be applied over existing concrete surfaces that are seasoned or new.

The surface must be healthy, consistent, free of dust and unstable parts. It must also be dry, absorbent and free of cracks. Remove any cement residue, oil, dust, grease, detached or friable parts by power washing or sanding. Repair surface using appropriate repair mortar for concrete.

Wash surface with a Microfiber cloth and a pH neutral detergent. Do not use acidic solutions, butyl or citrus-based detergents (D-limonene).

To obtain a better finish it is recommended to clean the surface by sanding the pavement with 60-100 sandpaper or a diamond grinding wheel. Remove dust and any residues by passing a broom or a mop using water and rinse. Wipe the surface dry with a floor squeegee.

In all cases where it is necessary to increase the mechanical and chemical resistances of the surface, on flooring designed to support heavy and arduous traffic, we recommend that you previously apply a coat of **ACQUASILICATO** using a nebulizer at low pressure or, in the case of small surfaces, by hand using a soft-bristled broom or a microfiber cloth.

Always wait for the surface to dry completely before applying the sealer.

### APPLYING THE SEALER

Mix the can of **ACQUASHIELD LI** thoroughly by shaking before use.

Apply to the surface evenly using a Microfiber cloth or similar, distributing the product in a thin layer over the entire floor. Allow the first coat to dry for at least 30-60 minutes and





then apply a second coat of the product until you get the desired result. Do not apply excessive amounts of product but proceed with very thin coats. Abundant applications do not allow the product to cure correctly and the surface may discolour or whiten. Polish the floor after each application using a high speed polishing machine with natural bristles to increase shine and accelerate the protective action. The treated floor can be walked on after about 45-60 minutes and can be opened to foot traffic after just 2 hours . The complete protective reaction may take up to 15 days from the date of application, while the strength and stain resistance will reach peak performance within 7 days of application.

**INDICATIVE AMOUNTS**

*Smooth concrete:* 0,015-0,020 litres per m<sup>2</sup> per coat.  
*Subsequent applications:* 0,010-0,015 litres per m<sup>2</sup>.  
The yield may vary depending on the quality and finish of the concrete.

**COLOUR**

White

**PACKSAGING**

Plastic can of 25 litres.

**STORAGE**

6 months in original intact packaging and protected from frost.

**RECOMMENDATIONS**

Do not apply in temperatures below + 5°C or above + 35°C.  
Do not apply to surfaces that are frozen, thawing or at risk of freezing within 24 hours after application.  
Prior to application, perform a test on a portion of the surface to be treated to ensure the absence of any contaminants that may be incompatible with the product.  
Do not use acidic or citrus-based cleaners. To clean from dirt and dust use a broom or an electrical sweeper. It is recommended to wash and dry the floor with water and, if necessary, a pH neutral detergent. In the case of contact of the product with glass surfaces, fabrics, metal or painted surfaces, wipe immediately with a damp cloth and dry with a clean cloth.  
Do not use on tarmac surfaces, non-cementitious materials or painted surfaces.  
Do not clean or rub the surface for a period of 7 days after application in order to limit the risk of whitening or discoloration of the surface.  
Keep the area dry for a period of 24 hours after application of the product.

**PRODUCT DATA**

<i>Appearance</i>	liquid
<i>Colour</i>	transparent
<i>Type</i>	Nano-lithium silicates stabilized in aqueous dispersion
<i>Maximum storage temperature</i>	+ 35°C
<i>Minimum storage temperature</i>	+ 5°C
<i>Specific weight</i>	1,09 g/cm <sup>3</sup>
<i>pH</i>	11,5





**APPLICATION DATA**

<i>Dry residue</i>	23%
<i>Minimum application temperature</i>	+ 5°C
<i>Maximum application temperature</i>	+ 35°C
<i>Minimum working temperature</i>	- 20°C
<i>Maximum working temperature</i>	+ 70°C
<i>Minimum waiting time between coats</i>	30'-60' minutes
<i>Drying time</i>	1-2 hours
<i>Complete reaction time</i>	14 days
<i>Set to light foot traffic</i>	2 hours

**RESISTANCE TO STAINS**

**Scale key to stain resistance**

0	No change of stain that remains fully visible
5	Stain lighter but still visible
10	Stain completely disappeared with no visible trace

	30' minutes	60' minutes	90' minutes	24 hours
Balsamic vinegar	10	10	8	8
Red wine	10	10	9	9
Lubricating oil	10	10	10	10
Transmission fluid	10	10	10	10

**VOC**

Product not intended for use provided for by the directive 2004/42/CE.

**REMARKS**

**Product for professional use.** The data and instructions in this data sheet are based on our best practical and laboratory experience. They refer to laboratory tests and should be considered indicative. In view of the different conditions of use and application, which depend on factors over which Vimark has no control (type of surface, environmental conditions, technical indications for fixing, etc.), those who use the product are responsible for ascertaining whether or not it is suitable for the intended purpose. Thus our warranty obligation merely covers the quality and fade-free characteristics of the actual product, and exclusively in relation to the aforementioned data. Vimark reserves the right to make technical modifications without prior notice. This technical data sheet voids and substitutes all previous editions. Updates will be published on the web site [www.vimark.com](http://www.vimark.com).

