



## BERLING SHIELD

Waterproofing Nanotechnology



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Packing: 1lt | 5lt | 20lt

### Description

Special, one component, waterbased, protective, polysiloxane/silane, waterproofing solution, based on nanotechnology which penetrates deeply into the surface's smallest pores, protecting and fully waterproofing, any type of absorbent structural surface, such as cement, plaster, visible concretes, bricks, tiles, unpolished marbles (porous marbles) joints, alpha blocks, stones i.e. Karistos and Pilion stones etc. It's nano molecular size gives it the ability to easily penetrate the surface's open pores, thus providing excellent waterproofing properties. The product allows high breathability to the surface, that prevents external moisture from entering the interior of the surface while at the same time allowing moisture in the interior to come out in the form of water vapor. It does not affect the appearance of the surface and when dried the material is colorless and transparent. BerlingShield, has great resistance to alkalis, while at the same time it prevents the appearance of salts (efflorescence). Also, the product prevents the growth of mold and fungus and any other microorganisms that derive from moisture. It is very easily applied and can be used on both interior and exterior surfaces. After application the surface is very easily cleanable from various pollutants and from those that are transported through the rain.

### Purpose of Use

Hydrophobic Impregnation of surface protection products

### Product Characteristics

- One component polysiloxane/silane, waterproofing solution.
- Suitable for interior and exterior use.
- CE Marking according to 1504-2:2004 Standard –Surface Protection Products –Hydrophobic impregnation (For the Declaration of Performance please visit [www.berling.gr](http://www.berling.gr))
- Not affected by exterior environmental factors such as heat / cold
- Exceptional waterproofing properties.
- Exceptional penetrating properties.
- Intact from solar radiation.
- Repaint only after special surface preparation. The surface cannot be repainted with other types of overlays for at least 3-5 years. Maintenance with the same material every 3 to 5 years.

## Coverage

Theoretical coverage: 7-10m<sup>2</sup>/lt per coat, depending on the shape and the absorbency of the surface

## Application Instructions

Stir the product well before use, without thinning. Apply with a brush or roller at a temperature of 10-35°C and a maximum relative humidity of 75%. Do not apply when there is a chance of rain in the next 24 hours. Between each coat there must be a time interval of at least 10 minutes. Do not apply on non-absorbent surfaces and polished surfaces (i.e. polished marbles).

## Surface preparation

Surfaces to be painted must be dry and clean from any dirt, grease, salts or loose and flaking paint.

## New Surfaces

In case of new surfaces apply two or more coats of BerlingShiled, depending on the surface's absorbency.

## Old Surfaces

Cleaning and sanding of old surfaces is needed before BerlingShiled application.

## Technical characteristics

|  |  |
|--|--|
| <b>Depth of penetration</b>                                  | 4mm (EN 13579, EN 14630)   |
| <b>Water absorption and resistance to alkali as:</b>         |  |
| <b>Absorption ratio before immersion in alkali solution:</b> | AR(%)<7.5%   |
| <b>Absorption ratio after immersion in alkali solution:</b>  | AR <sub>ALK</sub> (%)<10%  |
| <b>Drying rate</b>   | DRC=32,8(%) (EN 13579)   |
| <b>Density</b>   | 1.01 ± 0,02 gr/cm <sup>3</sup> (ISO 2811).   |
| <b>Viscosity</b>   | 10-15sec 25°C (Cup 4 DIN 53211).   |
| <b>pH</b>  | 6.8 – 7.8  |
| <b>Coverage</b>  | 7-10 m <sup>2</sup> /lt , per coating depending on the surface's shape and absorbency.   |
| <b>Application</b>   | By brush or roller   |
| <b>Drying time</b>   | Touch dry after 1/2 to 1 hour. (the drying time might be elongated according to temperature and humidity conditions).  |
| <b>Recoating</b>   | After 10 minutes and while the surface is still damp from 1st coating application wet-on-wet. (recoating time might be elongated according to temperature and humidity conditions) |
| <b>Solvent</b>   | Water  |
| <b>Thinning</b>  | Ready to use, no thinning is required  |
| <b>Product Activation:</b>                                   | The product is activated at least 24h after the final coating  |

## ACCORDING TO 2004/42/EC

PHASE II, Subcategory h, binding primers, Max VOC content limit value = 30gr/lit, max VOC content value = 30gr/lit (ready to use product).

### Storage

Store the product indoors to avoid exposure to high or low temperatures and high humidity conditions. Avoid sources of heat, radiation, static electricity and storage near food. Keep containers tightly closed. After opening the container, use the product in a short time. Close the container well again (after use).

### Cautions - Environmental effects prevention

Clean tools using soap and water. Do not dispose of washings and excess paint in the sink, toilet or trash. Empty containers with paint remnants should be treated in the same way and disposed of in accordance with local regulations. Advice from the local authorities should be asked on disposal and disposal of waste. Consult an Authorized Body for recovery and disposal of waste. Wear protective gloves and goggles. Do not eat, neither drink anything at the time of handling. Wash your hands with the appropriate cleaning products. For more information ask for the Material Safety Data Sheet of the product.

*All the above information is based on laboratory tests and long-term experience of the company's scientific personnel. Product quality is guaranteed by our operational system, which is based on the requirements of ISO 9001, ISO 14001 and OHSAS 18001 Standards and EMAS Regulation. As producers we don't take any responsibility for any damage that may be caused in cases that the product hasn't been used for the appropriate application and according to the application instructions.*

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