

BERLING SHIELD

Waterproofing Nanotechnology



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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. Its 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. Berling Shield 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.



Stir well before use



Coverage:
7-10 m²/lt



Drying time:
Touch dry after
1/2 to 1 hour



Thinning
Ready to use
product.



Paint:
Roller



Paint:
Brush

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)
- 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.

Shades

Not tintable.

Packaging:

1lt
5lt
20lt



The above information is based on laboratory audits and the long experience of the scientific staff of the company. The quality of the product is guaranteed by the company's operating system which is based on the requirements of ISO 9001, ISO 45001, ISO 14001 and the EMAS regulation. As producers we are not responsible for any damage or damage caused in the event that the product has not been used for the appropriate application and in accordance with its instructions for use.

Technical Specifications



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

ACCORDING TO 2004/42/EK

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



Storage

Storage indoors to avoid exposure to high or low surfaces and high humidity conditions. Avoid sources of heat, radiation, static electricity, and storage near food. Keep container tightly closed. After opening can use product in a short period of time. Close the can well.



Safety Instructions- Prevention of environmental harming

Minimize paint wastage by estimating how much paint you will need. Recover unused paint for reuse. Reuse of paint can effectively minimize the products life cycle environmental impact. Clean tools with water and soap. Do not put residual paint down the kitchen sink or toilet or into a waste bin. Empty cans with paint residues should be handled the same way and disposed according to local Regulations. You should ask for advice for the local government section responsible for the collection and disposal of waste. Ask for advice from an authorized body for waste recovery. Wear protective gloves and goggles/ Do not eat, drink when handling the product. Wash wand with suitable cleaning products. Keep out of reach of children. Always read the can label before use.
For further information ask for the Safety Data Sheet of the product.

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Recommended application systems

Interior/ Exterior surfaces

SURFACE PREPARATION

Surfaces to be painted must be dry, stable and clean from any dirt, grease, salts or loose and flaking paint. In case of new surfaces apply two or more coats of Berling Shield, depending on the surface's absorbency. For old surfaces cleaning and sanding of old surfaces is needed before Berling Shield application.

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).

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