

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product trade name:** BK-AquaPhobe

**Manufacturer information:**

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## 2. DESCRIPTION AND SCOPE OF APPLICATION

BK-AquaPhobe is a transparent silane and siloxane based hydrophobic impregnation for mineral surfaces intended for outdoor or indoor use. It is suitable for application onto bricks, tiles, natural and artificial stone, gypsum elements, concrete surfaces, mineral and synthetic facade plasters, etc. The product is intended to reduce the water absorption of coated surfaces, which contributes to protection against frost and the action of aggressive chemicals from the air that can damage and disrupt the appearance of facades of buildings, monuments and other surfaces. On substrates coated with BK-AquaPhobe impregnation, the occurrence of salting out and the probability of the development of microorganisms are reduced. The product does not have a negative impact on the vapour permeability of the substrate on which it is applied because it does not form a film on the surface. After application, the degree of gloss of the coated surfaces does not change.

BK-AquaPhobe can also be used as an additive in grouting mass to improve the hydrophobicity of the material and resistance to microorganisms. The product is ready for use.

## 3. COMPOSITION

**Chemical composition:** Aqueous emulsion of silane and siloxane, water and additives.

**Hazardous ingredients:** In accordance with Regulation (EC) No 1272/2008 on the classification, packaging and labelling of hazardous substances and mixtures, which legally introduced the CLP / GHS classification and labelling system, this product is not classified as a hazardous product.

## 4. TECHNICAL CHARACTERISTICS

<b>Density, g/dm<sup>3</sup> (EN ISO 2811-1)</b>	1000
<b>Water absorption, kg/(m<sup>2</sup> h<sup>0,5</sup>) (EN 1062-3)</b>	< 0,05
<b>Viscosity, mPas (EN ISO 2555)</b>	<100
<b>Indicative consumption, ml/m<sup>2</sup></b>	100-500

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**Packaging, l** 1; 20;

## 5. OTHER CHARACTERISTICS

**Appearance:** Colourless liquid

**Smell:** Characteristic

**pH value (EN ISO 787-9):** 7.0-9.0

**Dry matter content (EN ISO 3251),%:** 4-6

**VOC\* content, g / l:** <1 (maximum permissible value A (g) 30 g / l)

\*VOC: Volatile Organic Compound;

## 6. SUBSTRATE

The substrate onto which the impregnation is applied should be clean, dry and without loose elements. Suitable substrates are all surfaces of lime, cement, cement-lime and synthetic mortars, sand and lime bricks, concrete surfaces, tiles, joints, natural and artificial stone, etc. It can also be used on unpolished marble surfaces as protection against water and dirt absorption.

In case of repainting the surfaces infected with wall moulds, it is necessary to disinfect with BK-Sanacid. If the surface is wet from cleaning or rain, it is advisable to wait for the surface to dry in order for the impregnation effect to be as good as possible, otherwise capillary water from the substrate pores may interfere with the penetration of the product into deeper layers.

## 7. PREPARATION AND APPLICATION

Stir the material well before use and then apply the undiluted product with a soft brush, roller or using spray application. For best results, it is recommended to apply in two layers according to the "wet on wet" principle until the substrate is saturated. The penetrating effect is more pronounced on more absorbent substrates. On horizontal surfaces, apply the product until saturated, and after 5-10 minutes, remove the excess by polishing with a dry cloth. If it is not removed, the excess material forms an adhesive layer which is difficult to remove after complete drying (characteristic of poorly absorbent surfaces).

When BK-AquaPhobe is used as an additive to further reduce the absorbency of the grout when mixing the grouting mass, it is necessary to replace part of the water with BK-AquaPhobe in the amount of 2-3%. To achieve the maximum effect, dried grout can be additionally coated with BK-AquaPhobe.

The drying time of the coating is 4-6 h under normal conditions (T = + 23-25 °C, 50-60% r.v.v.(relative humidity)). The water-repellent effect develops after only 24 hours when drying under normal conditions.

The installation temperature should be in the range of +5°C to +30°C, and the relative humidity should not exceed 80%. Do not work in direct sunlight, wind, rain or fog. High humidity and low temperatures can significantly extend the drying time.

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## 8. MAINTENANCE

Surfaces treated with BK-AquaPhob impregnation have good resistance to filth and do not require special maintenance. Any filth can be removed by washing with warm water and a universal household cleaner (laundry detergent / dishwasher). After that, rinse the surface with clean water.

Regenerative surface treatment with a hydrophobic coating should be applied as needed. The frequency of coating depends on the exposure of surfaces to atmospheric influences, abrasion and cleaning, etc.

## 9. TOOL CLEANING

Immediately after use, the tool should be thoroughly washed with water.

During operation, it is necessary to protect glass, aluminium and other metal surfaces because the dried product is difficult to remove from the mentioned surfaces.

## 10. HANDLING AND STORAGE

No special handling precautions are required for proper application. Keep out of reach of children.

Store at temperatures from +5 °C to +25 °C, protected from direct sunlight and frost.

Shelf life: 12 months.

## 11. PERSONAL PROTECTION

Respiratory protection: Not required for well-ventilated areas.

Hand and body protection: Preventive use of protective gloves is recommended in case of repeated skin contact. Use a work suit with long sleeves and long pant legs.

Eye protection: Wear safety goggles as a precaution.

## 12. ECOTOXICOLOGICAL INFORMATION

Based on experience and existing information, no adverse health effects are known when used properly. Prevent uncontrolled discharge into sewers and watercourses.

## 13. MANNER OF DISPOSAL

In accordance with local / regional / European / national regulations.

## 14. OTHER INFORMATION

In some cases, depending on the absorbency and the type of substrate to be coated, the impregnated dried surface can change the intensity of the paint to a certain extent (the colour of the substrate intensifies). Before applying on a large surface, test the material on a smaller surface to check the absorbency and appearance after drying.

If the contractor notices any defect during the installation of the material, they are

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obliged to suspend the works and inform the manufacturer, who will start considering the complaint as soon as possible. Complaints addressed to the manufacturer after the installation of a large part or a complete amount of material, and concerning the stated characteristics cannot be the subject of a complaint.

## 15. NOTE

Banja Komerc Bekament DOO performs product control through its own laboratories, as well as occasional testing in independent certified laboratories. The data product sheet is a product of our knowledge and previous practical experiences, and should be used as a recommendation by all users to achieve the best results. If the weather and other conditions are different from those in our instructions, it is necessary to take our instructions as general guidelines, without a guarantee for installation.

Banja Komerc Bekament DOO does not take responsibility for damage caused by improper use or incorrect selection of products, as well as for poor quality work. It is assumed that the contractor has mastered the techniques of installation and use of various products.

The above does not obligate us in any way.

This document supersedes all previous versions, which are considered invalid from the cited date of creation.

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Amended chapters: 4.