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| TECHNICAL DATA SHEET | Issue: 1 | Version: 4 |
| BK-PENETRAT | RZ-TLP-052 | Date: 09.08.2023. |

1. PRODUCT AND COMPANY INFORMATION

Product commercial name: BK-Penetrat

Manufacturer:

Banja Komerc Bekament DOO
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Arandelovac
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2. DESCRIPTION, FIELD OF APPLICATION

Deeply penetrating, breathable spread intended for impregnation, uniforming and solidifying all kinds of mineral external and internal bases. It is applied with absorbent, poorly bound surfaces before applying subsequent layers which would increase adhesion. Due to its nanoparticle structure it has the ability of great penetration. It is therefore suitable for restoring and renovating cultural monuments, historical objects. The product is also suitable for use when dilapidated and damaged surface mortars must be strengthened.

It is considered an eco-product not harmful to human health or the environment.

3. COMPOSITION

Chemical composition: Aqueous polymer emulsion.

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

4. TECHNICAL CHARACTERISTICS

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| density, g/dm³ (EN ISO 2811-1) | 1050 |
| Adhesion to the surface, MPa (EN ISO 4624) | ≥ 1,0 |
| Water absorption, kg/(m² h^{0,5}) (EN 1062-3) | 0,1-0,5 (Class W ₂ according to the EN 1062-1) |
| Vapor permeability (EN ISO 778-3): | 0,14-1,4 (Class V ₂ according to EN 10621) |

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| Particle size, µm (EN 1524) | < 100 (S ₁ according to EN 1062-1) |
| Viscosity, mPas (EN ISO 2555) | 400-800 |
| Indicative consumption, ml/m² | ~50-80 |
| Packaging, l | 1; 5; |

5. OTHER CHARACTERISTICS

Physical appearance: White liquid

Odor: Specific of polymeric binders

pH value (EN ISO 787-9): 7-8

Dry matter content (EN ISO 3251), %: ~20

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

*VOC: Volatile Organic Compound;

6. BASIS

The surface to which the base is applied must be firm, clean, dry, dusted off, free of old coatings which peel off, greasy stains, etc. All surfaces are appropriate: lime, cement, and cement-lime mortars (at least one month old), concrete surfaces (at least one month old), surfaces smoothed out with quality leveling masses (the age depends on the type), old layers of decorative mortars, and surfaces with colors or mortars which have taken on dispersion colors, etc. All coatings which did not take proper hold must be removed. Stained wall surfaces must be washed using a stream of hot water and then leave them to dry.

In the case of painting surfaces infected with wall mold, it is necessary to disinfect with BK-Sanacid. In the case of coloring surface that have been previously treated with oil-based paints, varnishes, etc, a complete removal of all existing spreads must be performed. Remove all poorly bound portions as much as possible.

7. PREPARATION AND APPLICATION

BK-Penetrat must be diluted in water in the ratio of 1:3 and mixed well. In order to achieve good penetration, it is necessary to abide by the dilution instruction. If the ratio of diluting using water is greater than instructed, the efficiency of BK-Penetrat in terms of adhesion, penetration and bonding of dense surface layers is reduced.

Application is performed using a long-haired brush, long-haired roller, or a spray gun. When it comes to old, absorbent surfaces, priming must be performed twice according to the wet-on-wet principle. The drying time in normal conditions (T=+23-25 °C, relative humidity=50-60%), before applying the paint or another final product is at least 24 hours. Air and basis temperature during installation should be in the +5 °C to +30 °C range. High moisture and low temperatures may significantly lengthen the drying time.

8. CLEANING THE TOOLS

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All tools must be thoroughly washed using water immediately after use. If the tools are not washed immediately after use, remove the hardened mechanical residue. Removal may be easier if the tools are submerged in water over a period of several hours.

9. HANDLING AND STORAGE

No special caution during use is needed when using the product properly. Keep out of reach of children.

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

Shelf life: 12 months.

10. PERSONAL PROTECTION

Respiratory tract protection: Not needed when the rooms are well aerated.

Hands and body protection: When the skin is repeatedly exposed to the mass, a preventative use of protection gloves is recommended. Use long-sleeve work overalls.

Eye protection: Use safety goggles as a preventative measure.

11. ECOTOXICOLOGICAL INFORMATION

Based on experiences and information currently available, no negative health effects are known when the product is used appropriately. Prevent uncontrolled discharge into sewage and waterways.

12. STORAGE

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

13. OTHER INFORMATION

If the contractor notices an aesthetic or application deficiency while using the material, he is obliged to cease the works and notify the manufacturer of this. The manufacturer will consider the claim in the shortest possible time frame. Complaints to the manufacturer upon using a significant portion or the entire amount of the materials are not subject to claims.

14. NOTE

Banja Komerc Bekament DOO performs product quality checks using its own laboratories. It also regularly tests its products in certified laboratories. The Data Sheet is the product of our knowledge and previous practical experience. The purpose of the Data Sheet is to serve as a recommendation in order to achieve the best possible results. If

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weather and other conditions are different than those described in our instructions, our instructions need to be taken as general guidelines, without an installation warranty. Banka Komerc Bekament DOO assumes no liability for damages resulting from the improper use or incorrect product selection, as well as for poorly executed work. It is assumed that the contractor has mastered the techniques of installing and use of various products.

Matters written herein bind us in no way.

This document replaces all previous versions. All previous versions, starting with the listed date the document was compiled, are void.

Date: 09.08.2023.

Previous version: 1.3. – 24.12.2021.

Amendments: Chapters: 1.