

PRODUCT DATA SHEET	Edition:1	Version:2
BK-Mal 520	RZ-TLP-167	Date: 24.12.2021.
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1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Trade name of the product:

BK-Mal 520

Data on manufacturer:

Banja Komerc Bekament DOO
Kralja Petra Prvog 132
Arandelovac
tel. 034-6777-500
fax. 034-6777-505

Contact data for preparation of DSP:

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2. DESCRIPTION AND SCOPE

BK-Mal 520 is a cement render intended for machine and manual coating of exterior and interior walls made of brick, block, aerated concrete, concrete, concrete slabs, etc. The product is characterized by high mechanical strength and good adhesion to the substrate, so this type of render is especially suitable for areas with high such as sanitary blocks, basements, bathrooms and kitchens.

3. COMPOSITION

Chemical composition: Gray cement, additives and mineral filler.

Hazardous ingredients: In accordance with Regulation (EC) No 1272/2008 on the classification, packaging and labeling of dangerous substances and mixtures, which legally introduces the CLP/GHS classification and labeling system, the component gray Portland cement is a hazardous ingredient, and thus the product is classified as hazardous and is labeled with the marking: Hazard.

4. TECHNICAL FEATURES

Bulk density, g/dm³	1400-1550
Density of hardened render, g/dm³ (EN 1015-6)	1400-1650
Compressive strength, MPa (EN 1015-11)	≥ 10 class of CS IV according to EN 998-1

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Flexural strength, MPa (EN 1015-11)	≥ 3
Adhesion to concrete substrates, MPa (EN 1015-12)	≥ 0.7
Capillary water absorption coefficient, kg/m²min^{0.5} (EN 1015-18)	≤ 0.2 class of W _c 2 according to EN 998-1
Water vapor diffusion coefficient-μ (EN 1015-19)	≤15
Indicative consumption, kg/m²/cm of layer thickness	~14-15
Packaging, kg	30

5. OTHER FEATURES

Appearance: Gray powder
pH value of wet render: 11-13

6. SUBSTRATE

The surface, on which the render is applied, should be firm, clean, dry and free of loose parts, oil stains, etc. Suitable substrates are all concrete surfaces (at least 2 months old), brick and block walls, aerated concrete walls, etc. The same product, BK-Mal 520, should be used for filling larger gaps and for thicker leveling layers, through multi-layer application with interlayer mesh reinforcement.

In the case of smooth concrete surfaces where there is usually residual oil from the formwork, it is necessary to clean the oil residues with a jet of hot water, and then perform priming with BK-Beton Kontakt in order to achieve better adhesion of the render to the substrate. When rendering highly absorbent, as well as unevenly absorbing surfaces (aerated-concrete blocks), it is necessary to perform priming with BK-Nivelator, in order to equalize the absorbency and prevent the appearance of cracks on the render due to uneven drying. Alternatively, in both cases the substrate preparation can be carried out by pre-application of diluted BK-Mal 520.

7. PREPARATION AND APPLICATION

Preparation of render is done by intensive mixing of powder with about 21-23% of water (about 6.5-7l of water per 30kg of powder). Apply the render by machine in a caterpillar pattern in a thickness of at least 10 mm and a maximum of 25 mm. In case of the need for larger thicknesses, it is necessary to continuously apply the render according to the “fresh-to-fresh” principle up to a maximum total thickness of 30 mm. The render is leveled with an H-bar after application. After some time, depending on the conditions at the place of application (usually a couple of hours), the finishing of the render is performed with an adequate tool (scraper, spiked float, etc.).

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The optimum air and substrate temperature during application is between +5°C and +30°C. The render should be protected from drying out too quickly, because in conditions of high temperatures and drafts, surface cracks may occur. Direct heating of the render is not allowed because the render must harden evenly. The drying time of the render before further processing is min. 10 days per cm of render thickness.

8. CLEANING OF TOOLS

The transfer hoses and other tools should be thoroughly washed with water immediately after use. For easier cleaning, the render should not be left in the hose for more than 30 minutes. If the tool is not washed immediately after use, mechanically remove any hardened residues.

9. HANDLING AND STORAGE

Transport the material in closed bags. Ensure good ventilation during work, if used indoors. When working with wet render, protect eyes and skin due to its alkaline effect. Keep out of reach of children.

Store the material in dry rooms on pallets, protected from moisture.

Shelf life: 12 months.

10. PERSONAL PROTECTION

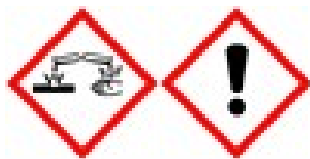
Respiratory protection: Not required in well-ventilated areas.

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 legs.

Eye protection: Wear safety goggles as a precaution to protect against dust and wet render.

11. REGULATORY INFORMATION

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Hazard

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Skin irritation, category 2: H315

Skin sensitization, category 1: H317

Serious eye damage, category 1: H318

Specific target organ toxicity – single exposure, respiratory irritation, category 3: H335

H-phrases:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation

P-phrases:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if any, and if possible. Continue rinsing.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

12. ECOTOXICOLOGICAL INFORMATION

Based on experience and existing information, no harmful health effects are known in case of proper use. Prevent uncontrolled discharge into drains and watercourses.

13. DISPOSAL METHOD

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

14. OTHER INFORMATION

If during the render application the contractor notices any aesthetic or application-related deficiency, it shall cease the works and notify the manufacturer thereof, who shall take the remarks into consideration in the shortest possible timeframe. Remarks, concerning the above characteristics, sent to the manufacturer after incorporation of a significant portion or the entire quantity of the material, cannot be the subject of a complaint.

15. NOTE

Banja Komerc Bekament DOO performs product quality checks using its own laboratories, and also regularly tests its products in certified laboratories. The Data Sheet is the product of our knowledge and previous practical experience and it should serve to all users as a recommendation for achieving the best possible results. If 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.

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Banja Komerc Bekament DOO assumes no liability for damages resulting from the improper use or incorrect selection of product, as well as for poorly executed works. It is assumed that the contractor has mastered the techniques of incorporation and use of various products.

Matters written herein bind us in no way.

Date of preparation: 24.12.2021.