

## DATASHEET

### Okapox royal (grouting mortar)

Epoxy resin grout and adhesive mortar for walls and floor surfaces



- very malleable and easy to process
- quick and easy to clean
- stable
- available in 12 trendy colours!
- suitable for use as an adhesive and for grouting
- high mechanical load capacity and chemically resistant
- for indoor, outdoor and underwater areas
- can also be used as a fast system by adding Okapox Accelerator

## PRODUCT DESCRIPTION

Solvent-free epoxy resin joint and adhesive mortar in sand, white and 10 other shades, for the highly demanding and acid-resistant laying and grouting of ceramic tiles, corresponding natural stone coverings and glass mosaics, in acidic constructions and in swimming pools and therapy pools. **Okapox royal** can be used as an adhesive mortar on substrates made of minerals, steel, wood and similar materials.

**Okapox royal** complies with EN 12004 R2T, is stable for laying on floor surfaces, and can be easily slurried and washed off as grout. The 2-component material in the base colour sand (Item No. 14231) in the 2 kg container can be coloured by a paste-like colour component in 5 current shades (according to the colour chart). **Okapox royal** has a uniform colour throughout, and supports the refined effect of the coating.

## SUBSTRATE PREPARATION

### Installation:

The substrate must be dry, clean and stable. Chipboard or other drywall substructures must be mounted so that they are free from torsion, vibration and warping. Prime the substrate with **Okatmos® UG 30**, **Okatmos® DSG** or **Okapox GF**.

**Grouting:**

The tiles and tile edges must be clean and dry. Thoroughly clean the joints to be filled and remove loose parts. Check that the covering materials - especially the covering surfaces - are suitable, and observe the regulations of the covering manufacturer. For a uniform joint, only use material from the same batch. The grouting mortar must be dry before use. Surfaces laid in a thin-bed process should be grouted after 24 hours at the earliest.

**PROCESSING**

When covering the entire surface, apply the adhesive mortar to the substrate using the appropriate notched spatula (see table), push the covering material into the adhesive bed, and press it down. The combined method (buttering-floating) must be used for highly stressed coverings and outdoor areas.

Homogeneously mix component A and component B with an electric stirrer. **Then transfer to another pot, and mix thoroughly again.**

For grouting, slurry the grouting mortar and apply it to the joints parallel to the tiles using the special grouting disc of the epoxy resin grouting mortar, and remove excess diagonally. For large areas, it is advisable to use pointing machines (e.g. Karl Dahm KD 5). Emulsify excess mass with a little water and a special pad within approx. 50 minutes, and wash off using a viscose sponge or sponge board. To emulsify, use the wash-ing agent **Okamul WH Plus** diluted with water in a ratio of 1:9, or spray onto the grouted surface with an atomiser. Protect surrounding surfaces. Non-slip or slip-resistant ceramic coverings are rationally grouted with a spray gun.

Remaining layers of resin can be removed after 16 hours at the earliest, but within 24 hours, with the washing agent **Okamul WH Plus** - either in its undiluted form, or diluted with water in a ratio of 1:1.

To accelerate the reaction time, and to shorten the waiting time, 1 container (300 g) of **Okapox Accelerator** can be added per 5 kg of **Okapox royal**. This reduces the reaction time to approx. 3.5 - 4.0 hours.

## SPECIFICATIONS

Application	inside, outside** and under water***, on walls and flooring
Color	see page 4
Density	approx. 1.6 kg/m <sup>3</sup>
Application temperature	+10 °C to +25 °C (50 °F to 77 °F) (substrate)
Mixing ratio	4:1 pursuant to pbw Component A + component B
Pot life*	<b>approx. 50 minutes</b> <b>approx. 20 minutes with Okapox Accelerator</b>
Open time (working)	approx. 50 minutes approx. 20 minutes with <b>Okapox Accelerator</b>
Chemical resistance*	<b>after approx. 7 days</b> <b>after approx. 3 days with Okapox Accelerator</b>
Mechanical resistance *	<b>after approx. 7 days</b> <b>after approx. 3 days with Okapox Accelerator</b>
Ready for cleaning* / re-emulsify*	approx. 50 minutes approx. 20 minutes with <b>Okapox Accelerator</b>
Walkable* / ready for grouting*	after approx. 12 hours after approx. 3.5 - 4.0 hours with <b>Okapox Accelerator</b>
GISCODE	RE 1 in accordance with TRGS 610
Storage	store in a frost-free and dry place, for approx. 18 months

\* At 68 °F (+20 °C) and 65% relative humidity.

Higher temperatures lower these values and lower temperatures increase them correspondingly.

\*\* Outdoors largely cavity-free laying is required (buttering-floating).

## COVERAGE

For adhesion:

Largest edge length of the surface	Tooth depth of the notched trowel	Application (mass)
up to 50 mm	3 mm (TKB C3)	approx. 1.6 kg/m <sup>2</sup>
51-108 mm	4 mm (TKB C1)	approx. 2.2 kg/m <sup>2</sup>
109-200 mm	6 mm (TKB C2)	approx. 3.0 kg/m <sup>2</sup>
above 200 mm	at least 8 mm (at least TKB C4)	approx. 4.0 kg/m <sup>2</sup>

For grout

Surfacing material	Application (mass)
split tiles 11.5 x 24 x 0.8 cm	approx. 1.4 - 1.8 kg/m <sup>2</sup>
tiles 20 x 20 cm	approx. 0.3 - 0.5 kg/m <sup>2</sup>
central mosaic	approx. 0.6 - 0.8 kg/m <sup>2</sup>

## TOOLS

Spatula, plastic smoothing tool/hard rubber trowel or pointing machine with grouting plate (for example Karl Dahm KD 5), viscose sponge, pad board with washing pads.

## CLEANING

Clean the covering and tools immediately with water and/or **Okamul WH Plus**.

## PACKAGING

Product description	Item no.	Item no.	
88 x 2 kg containers	14221	white	4015705142210
88 x 2 kg containers	14222	silver-grey	4015705142227
88 x 2 kg containers	14223	jura	4015705142234
88 x 2 kg containers	14224	mid-grey	4015705142241
88 x 2 kg containers	14225	stone grey	4015705142258
88 x 2 kg containers	14226	shadow	4015705142265
88 x 2 kg containers	14227	sand grey	4015705142272
88 x 2 kg containers	14228	anthracite	4015705142289
88 x 2 kg containers	14229	velvet-black	4015705142296
88 x 2 kg containers	14230	Bali brown	4015705142302
88 x 2 kg containers	14231	sand	4015705142319
88 x 2 kg containers	14232	Manhattan	4015705142326
88 x 5 kg containers	14192 white	4015705141923	
88 x 5 kg containers	14193	silver-grey	4015705141930
88 x 5 kg containers	14194	mid-grey	4015705141947

88 x 5 kg containers	14196	shadow	4015705141961
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The aforementioned information, especially the proposals for processing and utilizing our product, is based on our knowledge and experience. We recommend that you carry out your own tests in every case to ensure the suitability of our products for the intended process and processing purposes because of the different materials and the working conditions which lie beyond our area of influence. No liability can be derived from this advice or from verbal advice, unless we are responsible for (criminal) intent or gross negligence in this respect.

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