

# DATASHEET

## Okatmos® DSG

Acrylic based mitigation and primer / bonding system



- for absorbent and non-absorbent substrates
- moisture mitigation system when used as a two or three coat system primer and bonding agent
- quick-drying and high bond strength
- for exterior, interior and submerged applications
- excellent solution for basement concrete floors
- solvent-free and very low in emission
- sanitizing characteristics
- as a moisture barrier against increased humidity in unheated cementitious substrates
- protection of the calcium sulphate screed against moisture
- No tile format limitation when used on calcium sulphate screeds
- No quick-setting adhesive required for installing large format tiles on calcium sulphate screed
- Does not replace waterproofing membranes or components according to DIN EN 18533 and DIN 18534

## PRODUCT DESCRIPTION

Solvent-free, acrylic based, sanitizing moisture barrier, primer and a bonding agent with a high bond strength for a well-prepared substrate. For absorbent and non-absorbent substrates to use before levelling, waterproofing, thin-bed tile installation or the installation of textile/flexible floor surfaces and parquet/engineered wood flooring, and large, small format tiles.

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**Okatmos® DSG** can be used as a barrier primer based on 1-component reaction resin on unheated cementitious substrates such as cement screeds or concrete to block excessive moisture prior to levelling as well as elastic/textile coverings and parquet to be bonded thereon:

- Residual moisture of up to 3 CM-% (85 % RH) for unheated cement screed (2-layer application) and 4 CM-% (90 % RH) (3-layer application).
- For unheated concrete substrates (also under cement composite screed) with a maximum residual moisture of (90 % RH) (2 layers) and (95 % RH) (3 layers) according to DARR method measurements.
- For use under large ceramic tiles to provide moisture barrier from self-levelling compounds or normal-set thin-bed mortars.
- No thickness limitation when using Kiesel self-levelling compounds or tile adhesives over 2-layered applications on calcium sulphate screeds.

**Okatmos® DSG** can be used as a moisture barrier based on 1-component reaction resin for the installation of large format tiles on calcium sulphate flow screeds against moisture from normal setting cementitious installation products: on calcium sulphate screeds with 2-layer application, no limitation of the layer thickness of the cementitious Kiesel levelling compounds/installation materials.

**Okatmos® DSG** is also a suitable primer and bonding agent for smooth wood substrates, dense and non-absorbent substrates such as, e.g. old tile, natural stone or artificial stone surfaces before levelling work or thin-bed tile installations. **Okatmos® DSG** can also be applied outdoors on mineral substrates and on firmly adhering old ceramic coverings.

Not suitable over sulphite liquor adhesives, magnesia- based screeds and stonewood-screeds.

Sanitizing properties provide an additional odour containing properties.

## SUBSTRATE PREPARATION

The substrate must be inspected and ready for installation in accordance with the respective regulations of the individual countries as well as the current state of technology. Substrates must be pre-treated in accordance with the current BEB datasheet ('Evaluation and Preparation of Substrates').

Depending on the type of substrate, floor coverings and the requirements such as subsequent loading conditions, prepare substrate for laying using suitable Kiesel primers/pre-coats and self-levelling compounds. With non-absorptive substrates, apply a Kiesel levelling or patching compound to a minimum thickness of 2 mm. Technical datasheets of other Kiesel products used, must also be complied with. A system structure must be ensured.

## PROCESSING

Shake container before use.

**Okatmos® DSG** as a moisture barrier:

**Okatmos® DSG** is applied as a two or three coat system to wooden substrates and non-absorbent substrates undiluted with a lambskin roller, high quality paint roller or brush on the substrate. On absorbent substrates, **Okatmos® DSG** is diluted 1:1 with water for the first application. After drying, a second or third application is undiluted to obtain a proper moisture barrier based on the required reduction of RH value. The third coat is applied when the second one is completely dry. Allow the applied primer to dry thoroughly. Apply **Okatmos® DSG** to the substrate with the Kiesel Primer or similar evenly over the entire surface and filling the pores. Avoid pooling.

Not to be used over hydronic radiant floor heating as a moisture barrier. Can be used over electric heated floors.

Allow the primer to dry thoroughly after applying each coat.

Not to be used over magnesium oxide, xylolite flooring, sulphite lye.

**Okatmos® DSG** as a primer bonding agent:

**Okatmos® DSG** can also be applied over well prepared cutback adhesive, old terrazzo, particle board, chipboard, OSB, cement backer units and concrete screeds and well bonded ceramic tiles. When used over existing exterior tiles a waterproofing membrane **Servoflex DMS 1K Plus SuperTec** is required. Metal and similar substrates must be rust-free and cleaned with Acetone.

## SPECIFICATIONS

Color	pink
Application	for indoor, outdoor and submerged areas, on walls and floors
Application temperature	≥ 10 °C / 50 °F (substrate)
Drying time*	approx. 10minutes, resp. after drying
Floor heating system	suitable
GISCODE	D 1 according to the Technical Rules for Hazardous Materials (TRGS 610)
EMICODE	EC1 <sup>Plus</sup> according to GEV
Storage	store in frost protected area for up to 12 month (keep from freezing)

\* at +20°C and 65% relative humidity.

Higher temperatures will reduce and lower temperatures will extend these values accordingly

## COVERAGE

**As a bonding agent** per 1 liter – 1 quart:

approx. 150 g/m<sup>2</sup> - 72 ft<sup>2</sup> over non-absorbent, textured substrates. Over plywood, OSB, similar.

approx. 60-70 g/m<sup>2</sup> - 139 ft<sup>2</sup> diluted with water at 1/1 ratio. Over cementitious, mineral, gypsum based substrates.

approx. 120-130 g/m<sup>2</sup> - 91 ft<sup>2</sup> undiluted, full strength, smooth substrates. Clean, sound existing ceramic, stone tiles.

**As a moisture barrier** per 1 liter – 1 quart. Minimum two coat system is required (85% RH, 3 coat 95% RH). First coat always diluted with 1:1 water ratio, one directional application. Change the directions with every additional coat:

approx. 60-70 g/m<sup>2</sup> - 139 ft<sup>2</sup> diluted with water at 1/1 ratio. Over cementitious, mineral, gypsum based, plywood substrates.

approx. 120-130 g/m<sup>2</sup> - 72- 91 ft<sup>2</sup> undiluted, full strength, smooth substrates.

## TOOLS

Brush, lamb's wool roller Kiesel pre-coating roller, high quality paint roller if used to provide a barrier against moisture.

(Item no. 15029, EAN: 4015705120291).

## CLEANING

Clean tools immediately with water.

## PACKAGING

Product description	Item no.	Item no.
60x 2.49 US gal. (10 kg) plastic canister	80178	4015705801780
50 boxes with 12x 1.0 qtrs. (1 kg) plastic bottles	80248	4015705802480

## SAFETY NOTICE

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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