Okatmos® DSG

Dispersion based moisture barrier & bonding agent

- For absorbent and non-absorbent substrates
- Moisture mitigation system when used as a two or three coat system primer and
- Bond promoting agent over various substrates
- Quick-drying and high bond strength
- For exterior and interior applications
- Excellent solution for basement concrete floors
- Solvent-free and very low emissions
- Antimicrobial technology
- As a moisture barrier against increased humidity in unheated cementitious substrates
- Protection of the calcium sulphate screed against moisture

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DESCRIPTION

Solvent-free, acrylic based, sanitizing moisture barrier, primer and a bonding agent with a high bond strength. 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, large, and small format tiles. **Okatmos® DSG** can be used as a moisture mitigation system on cementitious substrates such as cement screeds or concrete barrier against excessive moisture.

- Residual moisture of up to (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 over 2-layered applications on calcium sulphate screeds.

Okatmos® DSG is also a suitable primer and bonding agent for smooth, 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 over properly prepared cut-back adhesive, old or badly sanded asphalt floors, terrazzo, tile, 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. Odorless and environmentally friendly. As part of the **Okatmos®**-product-line, **Okatmos® DSG** avoids the development of odors originating in microbial interactions in the floor structure. It is therefore very suitable for renovation purposes.
Not suitable over liquid sulphate adhesives, magnesia- based screeds and Stonewood-screeds. Sanitizing properties provide an additional odor containing properties. **Okatmos® DSG** does not replace necessary or required waterproofing membranes.

SUBSTRATE PREPARATION

The substrate must be dry, clean and sound. Remove mechanically any oil based or loose products. The existing substrates must also comply with the applicable local and national standards and regulations in each case. The respective substrate must be tested in accordance with the applicable standards and when in doubt contact Kiesel technical department. Follow additional guidelines located in TTMAC and TCNA manuals.

PROCESSING

Shake container before use.

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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, sulphate lye.

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
VOC	0.0 g/L
Compliance	n/a
Recycle content	n/a
Antimicrobial technology	Yes
Application	Interior, exterior, submerged on walls and floors
Processing time*	Above 10 °C to 30 °C (50 F to 86 F (substrate))
Drying time*	Substrate dependable: approx. 10 minutes e.g. after drying
Floor heating system	Not to be used over water/hydronic radiant floor heating as a moisture barrier. Can be used over electric heated floors.
GISCODE	D 1 according to the Technical Rules for Hazardous Materials (TRGS 610)
EMICODE	EC 1Plus according to GEV
Storage	Store in the frost-protected area for up to 15 months (keep from freezing)

* At + 20 °C and 65 % relative humidity. Higher temperatures will reduce and lower temperatures will extend these values accordingly.

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COVERAGE

As a bonding agent per 1 litre - 1 quart:

Approx. 150 g/m^2 - 72 ft^2 over non-absorbent, textured substrates. Over plywood, OSB, similar.

Approx. 60 - 70 g/m^2 - 139 ft^2 diluted with water at 1/1 ratio. Over cementitious, mineral, gypsum-based substrates.

Approx. 120 - 130 g/m^2 - 91 ft^2 undiluted, full strength, smooth substrates. Clean, sound existing ceramic, stone tiles.

As a moisture barrier per 1 litre – 1 quart. A minimum two coat system is required (85 % RH, 3 coat 95 % RH). The first coat always diluted with a 1:1 water ratio, one-directional application. Change the directions with every additional coat:

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

Approx. 120 - 130 g/m^2 - 72 - 91 ft^2 undiluted, full strength, smooth substrates.

TOOLS

Brush, lamb's wool roller Kiesel pre-coating roller, high quality paint lint free if used to provide a barrier against moisture 1)

CLEANING

Clean tools immediately with water.

PACKAGING

Description	Item No.
60 x 10 kg/ 2.49 U.S. gal/ 9.42 Liters plastic canister	80178
50 boxes with 12 x 1 kg/ 1.0 qts/ 942 ml plastic bottles	80248

The aforementioned information, especially the proposals for processing and utilizing our product, is based on our

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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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