

Acrylic based moisture mitigation and primer/bonding system

Okatmos® DSG



- 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 and interior applications
- excellent solution for basement concrete floors
- solvent-free and very low emissions
- sanitizing characteristics
- as a moisture barrier against increased humidity in unheated cementitious substrates
- protection of the calcium sulphate screed against moisture

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.

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. Odourless and environmentally friendly. As part of the **Okatmos®**-product-line, **Okatmos® DSG** avoids the development of odours and stench 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 odour 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 bitumen/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.

Processing

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.

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

| | |
|-------------------------|--|
| Colour | pink |
| Application | interior, exterior, submerged on walls and floors |
| Application temperature | above 10 °C to 50 °F (50 °C to 122 °C (substrate) |
| Drying time* | approx. 0.5 to 2 hours minimum of 0.5 to 1 hours diluted minimum 1 hour undiluted (last application, at least 2 hours and after drying) |
| Floor heating system | Not to be used over 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 frost protected area for up to 12 months (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/m² - 72 ft² over non-absorbent, textured substrates. Over plywood, OSB, similar.

Approx. 60-70 g/m² - 139 ft² diluted with water at 1/1 ratio. Over cementitious, mineral, gypsum based substrates.

Approx. 120-130 g/m² - 91 ft² 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/m² - 139 ft² diluted with water at 1/1 ratio. Over cementitious, mineral, gypsum based, plywood substrates.

Approx. 120-130 g/m² - 91 ft² undiluted, full strength, smooth substrates.

Tool

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

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

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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