DATASHEET

Okapox GF

Epoxy primer

- solvent and water free
- suitable for critical substrates
- as a binding agent for drainage and epoxy mortars
- as a moisture barrier sd-Value of 200 m
- as a vapour barrier sd-Value of 200 m
- as a quick solution system with 3.5 - 4 hours reaction time by adding Okapox accelerator
- Does not replace waterproofing membranes or components according to DIN EN 18533 and DIN 18534.

PRODUCT DESCRIPTION

2-component, solvent- and water-free, very low-emission, low-viscosity epoxy resin primer and moisture barrier for absorbent and non-absorbent substrates prior to levelling and installation work.

Okapox GF can be used as a moisture barrier on cementitious substrates with textile coverings and engineered hardwood flooring. Additionally it can be used as a vapour barrier e.g. steam showers, sd-value of 200 m.

Okapox GF protects moisture-sensitive substrates such as calcium sulphate screeds against moisture penetration from the top and can be used as a binder for preparing epoxy based mortars.

Okapox GF offers at a layer thickness of 0.5 mm (coverage of about 500 g / m^2), a water vapour diffusion resistance (sd-value) of 200 m and can be used as a moisture barrier.

Okapox GF can be used in combination with Kiesel silica glass fiber mesh for the production of reinforced and consolidated installation substrates.

Okapox GF is also suitable as a binder for the production of drainage screeds in combination with Kiesel DEZ.

Advice: "For stair construction patented by Schweizer, 73342 Bad Ditzenbach, patent number DE 10 2012 105 665"

SUBSTRATE PREPARATION

The substrate must be inspected and ready for installation in accordance with the respective regulations of

Kiesel Bauchemie GmbH u. Co. KG
Wolf-Hirth-Straße 2
D-73730 Esslingen
Phone: 0711 93134-0
Fax: 0711 93134-140
www.kiesel.com
Stuttgart District Court HRA 210806

CEO:
Beatrice Kiesel-Luik
Dirk Schulze

Personally liable partner::
Kiesel Verwaltungsges. mbH
Stuttgart District Court HRB 210484
Registered Office of the company:
73730 Esslingen

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

Using a screwdriver to pierce the bottom of the lid container several times. Let the hardening liquid completely flow into the lower unit. When completelly empty remove upper unit and mix the two components intensively with an electric stirrer until the mixture is free of streaks. Then decant into another container and mix it again.

As a primer before levelling and installation work of ServoArt® CeFlo system: Apply **Okapox GF** evenly with the lambskin roller or toothed notch TKB B1 on the ground. Spread quartz sand grain size 0.6 - 1.2 mm into the fresh layer of **Okapox GF**. Alternatively apply a second coat of pure **Okatmos® EG 20 / Okatmos® UG 30** immediately after curing (within 48 h).

As a primer before levelling and installation work or in Okamul PU-FCA waterproofing system: Over absorbent substrates apply a second coat of pure **Okapox GF** (consumption approx. 300 g/m^2) immediately after penetration of the first coat. Subsequently transfer over the second coat quartz sand in excess; grain size 0.6 - 1.2 mm (**Okamul PU-FCA** grain 0.2 - 0.7 mm).

As a moisture barrier: Okapox GF creates a barrier for residual moisture max. 7.0 CM-% in concrete substrates and 5.0 CM-% for cement screeds under textile and resilient floor coverings and suitable engineered wood.

As a primer to protect moisture sensitive substrates: E.g. for calcium sulphate screeds apply one coat of **Okapox GF** and after initial drying time of 48 hours apply an additional prime with **Okatmos® UG 30 / Okatmos® EG 20.**

When used as an epoxy resin mortar: Mix **Okapox GF** to a homogeneous consistency and add up to 7 kg of quartz sand (grain size 0.6-1.2 mm) per kg **Okapox GF**. Optionally raise the stability of the mix by adding **Okapox additive stabiliser** (about 1-4%).
To accelerate the reaction time and thus to shorten the waiting time use one unit of **Okapox accelerator** (300 g) per 3.5 kg **Okapox GF**. The reaction time may be reduced to about 3.5-4 hours.

When used as a drainage mortar / drainage screed on balconies and terraces: To prepare drainable and efflorescence-free screeds, add 1 kg of **Okapox GF** to a large mixing bucket and mix to homogenous consistency with 25 kg of drainage screed additive **Kiesel DEZ** with an electric mixer at approx. 600 RPM until all aggregates are wetted with epoxy resin (visually recognisable by a deepening of the colour of the aggregate). For larger amounts use correspondingly suitable mixer and mixing bucket. Mixing ratio of 1:25.

The finished mixture is applied on previously prepared surface consisting of appropriate drainage mats, waterproofing grout **Servoflex DMS 1K Plus SuperTec** or **Servoflex DMS 1K-schnell SuperTec** (only up to a

drainage distance of ≤ 2 m). The minimum layer thickness is 25 mm (on drainage mats ≥ 35 mm).Use insulation strips around perimeter adjoining wall structure. The substrate must have a surface sloped at least 1.5%.
The drainage pour sizes shall be arranged in a square pattern without exceeding maximum length of 4 meters. The newly installed drainage system must be protected from rain and sunlight during the reaction time (at least 6 hours *). The optimal processing temperature is approx. 12 ° C to max 25 ° C. After complete reaction time of the drainage screed use Servoflex Trio schnell SuperTec and install tiles providing back- buttering method. Care must be taken to ensure that the covering material is almost fully bedded and that the joint space between the tiles is kept as free as possible from installing materials, e.g. by mechanical scraping. The tiles to be installed shall not exceed a surface area of 10,000 cm^2 and shall not exceed 1.20 m edge length and be suitable for the intended purpose. Bright tiles are preferable. Dark and large format flooring materials require a reduction in the above mentioned sizes.

Consumption: Approximately 16 kg / m^2 per m^2 / cm thickness drainage mortar, depending on compression.

SPECIFICATIONS

Color	yellowish,transparent
Application	exterior, interior, on walls and floors
Vapor permeability	DIN EN ISO 7783-2 after 200 m at a layer thickness of 0,5 mm
Density	approx. 1.20 g/cm^3
Compressive strength	approx. 60 N/mm^2
Flexural strength	approx. 35 N/mm^2
Adhesive strength	stronger than concrete
Application temperature	+10°C to +25°C (50 °F to 77 °F)(substrate)
Temperature tolerance	-20°C to +60°C (4 °F to 140 °F)
Mixing ratio	7 kg Packaging: 5,0 kg component A / 2,0 kg component B 3.5 kg containers: 2.5 kg component A / 1,0 kg component B 1 kg container: 0.71 component A / 0.29 kg component B
Quartz sand coverage for priming	approx. 2,5 kg/m^2 (granulation 0,6-1,2 mm)
Quartz sand coverage as primer under **Okamul PU-FCA**	approx.. 2,5 kg/m^2 (granulation 0,2-0,7 mm)
Processing time*	approx. 30 - 40 miutes approx. 30 with **Okapox Accelerator**
Floor heating system	suitable
Cure time*	after approx. 7 days after approx. 3 days with **Okapox Accelerator**
Walkable* / ready for installation*	after approx. 12 hours after approx. 3,5 - 4 hours with **Okapox Accelerator**

GISCODE	RE 1 according to TRGS 610
EMICODE	EC 1^{Plus} according to GEV
Storage	Store in a dry environment, about 12 month shelf life Recommended storage temperature: + 10 ° C - + 20 ° C

* At 68 °F (+ 20 °C) and 65 % relative humidity.
Higher temperature and low humidity decreases, lower temperature and high humidity increases this value respectively.

IMPORTANT NOTICE

Reserved for professional installers.

COVERAGE

approx. 200 - 300 g/m^2 as a primer

approx. 500 g/m^2 as moisture barrier

approx. 800 - 950 g/m^2 in combination with Kiesel silica glass fiber mesh

approx. 600-700 g/m^2 per cm layer thickness as drainage mortar/drainage screed

CLEANING

Clean tools immediately with Okamul WH Plus, Bakit RT or with solvents, e.g. Ethanol.

PACKAGING

Product description	Item no.	Item no.
30 x 10 kg combined container	60480	4015705604800
45 x 5 kg combined container	60481	4015705604817
4 x 1-kg tin can	60482	4015705604824
25 kg Drainage screed Kiesel DEZ	60332	4015705603322

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.

Revised: 2022-03-22/ag

Kiesel Bauchemie GmbH u. Co. KG
Wolf-Hirth-Straße 2
D-73730 Esslingen
Phone: 0711 93134-0
Fax: 0711 93134-140
www.kiesel.com
Stuttgart District Court HRA 210806

CEO:
Beatrice Kiesel-Luik
Dirk Schulze

Personally liable partner::
Kiesel Verwaltungsges. mbH
Stuttgart District Court HRB 210484
Registered Office of the company:
73730 Esslingen