

Epoxy Primer

Okapox GF

- solvent and water free
- suitable for critical substrates
- system solution for ServoArt® CeFlo
- as an additive for drainage and epoxy mortars
- as a moisture barrier sd-Value from 200 m
- as a quick solution system with 3.5 - 4 hours reaction time by adding Okapox accelerator



Product Description

Two components, solvent and water-free, very low-emission, low-viscosity epoxy 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.

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 / m²) has a water vapor 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 reinforcement and solidification of installations substrates.

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

Substrate preparation

The substrate must comply with VOB Part C, DIN 18 365 as well as with all technical requirements and must be ready for installation. The surface must be sound and clean. Remove dirt, paint, oil, grease wax and other contamination which might act as a bond breaker. Grind and prime calcium sulfate screed according to data sheet BEB. For high performance installations, e.g. for fork lift traffic, check substrate for suitability.

Kiesel Bauchemie GmbH u. Co. KG
 Wolf-Hirth-Straße 2
 D-73730 Esslingen
 Telefon: 0711 93134-0
 Telefax: 0711 93134-140
 www.kiesel.com

Niederlassung:
 D-39590 Tangermünde
 Telefon: 03 93 22 95-0
 Geschäftsführung:
 Wolfgang Kiesel
 Dr. Matthias Hirsch

Persönlich haft. Gesellschafterin:
 Kiesel Verwaltungsges. mbH
 Amtsgericht Stuttgart HRB 210484
 Sitz der Gesellschaft:
 73730 Esslingen
 Amtsgericht Stuttgart HRA 210806



Processing

Using a screwdriver pierce upper container several times. Let the hardening liquid completely flow into the lower unit. When completely empty remove upper unit and mix the two components intensively with an electric mixer until the mixture is free of streaks, let it lake and stir again.

As a primer before levelling and installation work of ServoArt® CeFlo system:

Okapox GF evenly with the lambskin roller or toothed bar TKB B1 on the ground. Immediately after curing (within 48 h) 2. Apply the product pure with **Okatmos® EG 20 / Okatmos® UG 30**.

*As a primer before levelling and installation work or in **Okamul PU-FCA** waterproofing system:* Over absorbent substrates apply first coat following the second one (consumption about 300 g / m²). Subsequently transfer over the second coat quartz sand; grain size 0.6-1.2 mm (*Okamul PU-FCA* grain 0.2-0.7 mm).

As a moisture barrier: Okapox GF creates barrier for residual moisture max. 7.0.-% 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:

Calcium sulphate screeds require one coat of **Okapox GF** and after initial drying time of 48 hours following with additional primers **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 one epoxy unit. Optionally raise the stability of the mix by adding 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** (200 ml) 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 (know visually achieved through color enhancement on the grain). 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 membrane **Servoflex DMS 1K Plus SuperTec** or **Servoflex DMS 1K schnell** (only the width of ≤ 2 m) The minimum layer thickness is 25 mm (on drainage mats ≥ 35 mm). Use isolation strip 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 temperatures is 12 ° C to max 25 ° C. Where 25 ° C. After complete reaction time of the drainage screed use **Servoflex Trio schnell SuperTec** and install tiles providing back- buttering method. It should be ensured that full mortar transfer is present and the grout joints are empty and clean and do not contain any dried thinset or debris. The tiles to be installed shall not exceed 10,000 cm² in diameter 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 / m² per m² / cm thickness drainage mortar, depending on compression.

Specifications

Color	yellowish,transparent
Application	exterior, interior
sd-value	DIN EN ISO 7783-2 after 200 m at a layer thickness of 0,5 mm
Density	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	50 °F to 77 °F (+10°C to +25°C) (substrate)
Temperature tolerance	4 °F to 140 °F (-20°C to +60°C)
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	ca. 2,5 kg/m ² (granulation 0,6-1,2 mm)
Quartz sand coverage as primer under Okamul PU-FCA	ca. 2,5 kg/m ² (granulation 0,2-0,7 mm)
processing time*	approx. 30 - 40 minutes approx. 30 minutes with Okapox-accelerator
Floor heating system	suitable
Curing period *	after approx. 7 days after approx. 3 days with Okapox-accelerator
Ready for traffic * / 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 1R 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 notices

Reserved for professional installers.

Coverage

approx. 200 - 300 g/m² as a primer

approx. 400-500 g/m² as moisture barrier of 800 - 950 g/m² in combination with Kiesel silica glass fiber mesh

approx. 600-700 g/m² per cm layer thickness as drainage mortar/drainage screed

Cleaning

Tools immediately Okamul WH Plus, Bakit RT or with solvents, e.g. Spirits clean.

Packaging

Packaging	Item no.	EAN
45 x 7 kg tin-can double component unit	48038	4015705480381
60 x 3,5 kg tin-can double component unit	48039	4015705480398
1 kg tin-can double component unit	48042	4015705480428
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: 02.12.2015/ho