Fast setting and curing flowable screed

Servoplan E 600

- self-levelling properties
- fast curing and drying
- tiles can be installed after 24 hours
- low stress
- pumpable
- from 5 - 80 mm; 3/16" - 3-1/8" thickness
- ideal for floor heating system

GEV-EMICODE EC 1 PLUS sehr emissionsarm

CE
Kiesel Bauchemie GmbH u. Co. KG
Wolf-Hirth-Straße 2
D-73730 Esslingen
09
EN 13813
Zementfließestrich-Fertigmörtel für den Innenbereich
EN 13813 CT-C45-F7

Brandverhalten:	A1fl
Freisetzung korrosiver Stoffe:	CT
Druckfestigkeit:	C45
Biegezugfestigkeit:	F7

Product Description

Cement, acrylic polymer based, fast hardening floor screed with levelling properties according to DIN EN 13813 and DIN 18560. Strength class CT C45-F7 in accordance with DIN EN 13813. Ready for installation over concrete floors, screeds on separation and insulation layer as well as heating screeds over insulating layers.

Servoplan E 600 is suitable as a substrate for tile, natural stone, elastic/textile floor coverings and engineered wood. For use in interior environment over rigid substrates corresponding with the moisture load class A0 in accordance to DIN 18560.

Installations over separating layer or floating screed require moisture testing. Especially for moisture sensitive coverings and engineered wood: without floor heating system ⩽ 3.0 CM-%;
with floor heating system ⩽ 2,5CM-%.

Substrate preparation

Observe all relevant standards, regulations and trade rules, particularly DIN 18353, DIN 18560 and DIN 1264, part 4. Provide and install movement joints as in conventional cement screeds. Joints must be cut at least after 48 hours. The surfaces must be clean, dry, firm, stable, dimensionally stable and free of bonding-reducing residues. Use tension reducing seal gaskets around perimeter of wall structure or at any scenarios that requires such product.

The size of the work area shall be limited to the processing time. Larger areas are appropriately divided with screed angles, expansion joint profiles, etc. Limit pours areas in the aspect ratio 1:1 or 1:2.

Maximal heated areas are limited to 6, 5 m length and 40 m². The water pipe must be buried in at least 45 mm thick bed in radiant heating scenario. Maximum flow temperature of 55 °C is possible. Follow instructions according to DIN EN 1264-4 performing heating protocol and keeping a log book. Heating can begin at the earliest 24 hours after installation of the screed with a flow temperature of 25 °C; this temperature must be kept for 3 days. The maximum flow temperature is set then held for another 4 days. Then, lower the surface temperature to ⩾ 15 °C up to approx. 20 °C, depending on the covering material. In unheated areas a maximum side length of 8 m and a total area are up about 60 m² is possible.

Use following primers: **Okatmos® DSG**, **Okapox GF**, **Okamul PU-V schnell**, **Okatmos® UG 30** or **Okatmos® EG 20** in accordance according to present surface conditions and requirements. It must be ensured that ground-touching slabs and moist surfaces must be treated accordingly with moisture barriers. This technique applies to moisture sensitive products such: calcium sulphate screeds. On calcium sulphate screeds exceeding thicknesses of > 10 mm, prime first using **Okatmos® DSG, Okamul PU-V schnel l** or **Okapox GF**. A Kiesel product system must be present. With asphalt based screeds only over separating layer.

Processing

Mix **Servoplan E 600** with clean, cool using suitable mixer at approx. 600 rpm to a lump-free consistency. Re mix after the initial slake time. For larger areas, **Servoplan E 600** can be used with the following machinery (E.g. M-TEC duo-mix 2000, Putzmeister, ...). Pour immediately and use proper spreaders. When using the pump technology always check for the proper consistency. Do not expose to direct sun light, drafts and sudden temperature changes within first 24 hours. The thickness of the screed is chosen depending on the load that is to be expected according to the selected type of execution in accordance with DIN 18560.
For the installation of ceramic / natural stone coverings use only C2-S1 based adhesives/mortars.

Specifications

Color	grey	
Application	interior, floors only	
Application temperature	+ 5°C to+ 25 °C (substrate)	
Water demand	approx. 3,2 - 3,4 liter / 20 kg bag	
Slake time	approx. 5 Minutes (and re mix)	
Processing time*	approx. 60 minutes	
Thickness	as a composite:	5 - 80 mm
	on separating layer:	30 - 80 mm
	on insulating layer:	35 - 80 mm
Walkable * / Ready for grouting *	after approx. 3 hours	
Ready for installation *	<u>Non-bonded:</u>	
	Ceramic tiles:	after approx. 24 hours
	Natural stone:	after approx. 24 hours / 10 mm thickness
	Resilient flooring:	after approx. 7 days / CM-moisture test
	Textile flooring:	after approx. 7 days / CM-moisture test
	Engineered wood:	after approx. 7 days / CM-moisture test
	<u>Bonded screed:</u>	
	Ceramic tiles:	after approx. 3 hours
	Natural stone:	after approx. 24 hours / 10 mm thickness
	Flooring:	after approx. 24 hours / until 10 mm thickness
		after approx. 48 hours / until 20 mm thickness
		after approx. 72 hours / above 20 mm thickness
	Engineered wood:	after approx. 72 hours

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

Kiesel ...klebt am Bau®

fire classification	A1fl according to DIN EN 13501-1
Floor heating system	suitable (please see instructions)
GISCODE	ZP 1 - chromate-arm after TRGS 613
EMICODE	EC 1 Plus
Storage	dry approx. 6 months shelf life
*	At 68 °F (+20 °C) and 65 % relative humidity. Higher temperature and low humidity decreases, lower temperature and high humidity increase this value respectively.

Important notices

Higher water ratio, as well as poor construction climate can cause higher shrinkage behavior and/or will resolve in cracks or additional problems.
The walkability times given are dependent on the construction-climatic conditions and the applied thicknesses and thus serve as reference values.

Because mineral materials will physically interact with the surrounding, the surface area is immediately to prove after reaching the maturity and shall be documented. Use only batches from the same material.

Coverage

approx. 1, 8 kg/m² per 1 mm thickness, approx. 56 ft² per bag

Cleaning

Clean tools and machinery immediately with water.

Packaging

Packaging	Item no.	EAN
54 x 20 kg paper bags	42053	4015705420530

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: 09.10.2017/DJ-lo

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

Kiesel ...klebt am Bau®