

Flexible full transfer thin set and medium bed mortar

Servoflex-Trio-SuperTec



- For interior and exterior application, freeze/thaw stable
- Superior non-sag characteristic for large format floor tiles, exceeding industry requirements
- Extended coverage; minimum 30 % more than a standard 50 lbs bag
- New mortar generation with easy trowel technology and extended bucket time
- Self-curing
- Recycled content
- Adjustable mortar consistency to accommodate the weight of the tiles
- For under and over uncoupling membranes and tile boards
- Rapid hardening development (can be exposed to final heavy commercial traffic, after three days only *)
- traffic
- Full mortar transfer (at 7.0 l or 1.8 U.S. gals.) – no back-buttering required (levelled and flat substrates only)**
- Can be used on exterior grade and industry-approved plywood (interior, dry environment only)***
- Reliable curing at low temperatures
- Can also be used over heated screed, balconies and patios
- For porcelain, stoneware installations
- Real multipurpose properties
- White version available
- SuperTec-technology for dense mortar matrix

Kiesel Technical Department
of North America
Canada: Toll-Free: 1.888.5437351
General inquires:
info.canada@kiesel.com
USA: Toll-Free: 1.888.5437351
General inquires:
info.usa@kiesel.com

Kiesel Bauchemie GmbH u. Co. KG
Wolf-Hirth-Strasse 2
73730 Esslingen, Germany
Phone: +49 711 93134-0
Telefax: +49 711 93134-140
www.kiesel.com

CEO:
Wolfgang Kiesel, Dr. Matthias Hirsch,
Beatrice Kiesel-Luik
Personally liable partner:
Kiesel Verwaltungsges. mbh
Stuttgart District Court HRB 210484
Registered office of the company:
73730 Esslingen, Germany
Stuttgart District Court HRA 210806



Product description

Flexible, acrylic polymer modified, cement-based thin-set and medium bed mortar with polymer additive for application layers of up to 25/32" (20 mm) for interior and exterior installations according to EN 12 004 C2 E S1 and ANSI A 118.4.

Servoflex-Trio-SuperTec is especially formulated to provide full mortar transfer to avoid air entrapments between mortar and covering without the disadvantage of floating bed mortar billowing through joints. ***Servoflex-Trio-SuperTec*** will hold heavy stone and tile without sagging on horizontal applications.

Servoflex-Trio-SuperTec is especially suitable for large modular ceramic tile installations, porcelain stoneware and natural stone coverings on limited form stable substrates such as heated screed (please follow the respective regulations and data sheets), in situ concrete (at least 3 months old) and similar. By increasing the water content to approx. 1.8 U.S. gals. (7.0 l) per bag, you yield a pourable floating bed mortar allowing an even installation without air pockets. In this case back buttering-floating technique may not be necessary.

Servoflex-Trio-SuperTec will hold the heavy stone, large tiles without sagging. Heated floors can be operational after three days only* (please follow additional local and manufacturer specifications).

Substrate preparation

Servoflex-Trio-SuperTec as a flexible thin and medium bed mortar:

The substrate must be sound, clean and stable. If installation occurs on shrinking substrates, frequent expansion joints should be included in the layout. Prime absorbent substrates in interior areas with **Okatmos® DSG** or **Okatmos® UG 30**. Allow a drying time of at least 24 hours over calcium sulphate screed. For layers thicker than 5 mm on calcium sulphate screed, prime with **Okapox GF** and level indents with **Servoflex-Trio-SuperTec**. Prime non-absorbent substrates with **Okatmos® UG 30**. In exterior areas apply a contact layer of adhesive mortar and let it set.

Double layered plywood substrates must be dry, APA-rated, Type 1, COFI Group exterior-grade plywood, certified CANPLY (SELECT) or (SEL-TF) CSA 121, minimum 32 mm (1¼") total thickness in residential and light commercial and dry conditions only. Refer to ANSI A 108 AN-2 "General Requirements for Sub surfaces" and the Tile Council of North America's "Handbook for Ceramic Tile Installation" for detailed information on surface preparation and guidelines for substrate construction. Provide expansion joints and control joints as specified per TCNA Detail EJ171; #301-MJ or TTMAC Specification Guide. Follow plywood installation guidelines and requirements located in Tile Council of North America's "Handbook for Ceramic Tile Installation" and TTMAC Specification Guide. Follow deflection allowance in accordance with ASTM C627 Standard test method. In some cases, the maximum deflection must not exceed L/720.

Follow additional installation and floor preparation guidelines located in the latest TTMAC and TCNA installation manuals. Contact Kiesel technical department for additional recommendations related to the tile sizes and installation over approved double layered plywood.

Processing

Mix **Servoflex-Trio-SuperTec** with cool, clean water to a smooth texture, using a proper amount of water. Allow mixture to slake for approx. 5 minutes and remix again. Uneven substrates can be levelled during the installation. In case of unevenness up to ¾" (20 mm) apply a levelling coat with floating bed consistency and allow it to cure for at least 24 hours before starting the installation. Apply a non-porous coat of **Servoflex-Trio-SuperTec** with an appropriately sized trowel onto the substrate, slide in the covering material within 25 minutes and press tightly. Depending on the absorbency of the substrate/covering corrections can be made within 25 minutes.

Kiesel Technical Department
of North America
Canada: Toll-Free: 1.888.5437351
General inquires:
info.canada@kiesel.com
USA: Toll-Free: 1.888.5437351
General inquires:
info.usa@kiesel.com

Kiesel Bauchemie GmbH u. Co. KG
Wolf-Hirth-Strasse 2
73730 Esslingen, Germany
Phone: +49 711 93134-0
Telefax: +49 711 93134-140
www.kiesel.com

CEO:
Wolfgang Kiesel, Dr. Matthias Hirsch,
Beatrice Kiesel-Luik
Personally liable partner:
Kiesel Verwaltungsges. mbh
Stuttgart District Court HRB 210484
Registered office of the company:
73730 Esslingen, Germany
Stuttgart District Court HRA 210806



Specifications

Color	White
Application	Interior, exterior** and submerged environment**, especially on floors
Thickness of the application	Max. 3/4" ft (20 mm)
Application temperature	41 °F to 77 °F (5 °C to 25 °C)(substrate)
Temperature tolerance	-4 °F to 176 °F (-20 °C to 80 °C)
Water demand	Stable consistency: approx. 1.5 U.S. gals./ 44 lbs powder (approx. 5.6 l/ 20 kg) Floor consistency: approx. 1.8 U.S. gals./ 44 lbs powder (approx. 7.0 l/ 20 kg) Viscous slurry: approx. 10.0 l/ 20 kg powder (water ratio approx. 45 - 50 %) per application
Slake time	Approx. 5 minutes (re-mix)
Processing time*	Approx. 3 hours
Working*	Approx. 30 minutes
Fully loadable*	After approx. 3 days
Walkable* / ready for grouting*	After approx. 12 hours
GISCODE	ZP 1 - low in chromate according to TRGS 613
EMICODE	EC 1 ^{Plus}
Compliance	C2 TE-S1 and ANSI A 118.4
VOC	0.0 g/L
Antimicrobial technology	Yes
Recycle content	Yes
Storage	Approx. 12 months in a dry area, unopened packaging
*	At 68 °F (+20 °C) and 65 % relative humidity. Higher temperatures and low humidity decrease, lower temperatures and high humidity increase this value respectively.
**	Avoid air entrapment doing exterior and underwater installations. Apply mortar on the substrate and backside of tiles (back-buttering procedure). Lift tiles and check for proper mortar transfer.

Kiesel Technical Department
of North America
Canada: Toll-Free: 1.888.5437351
General inquires:
info.canada@kiesel.com
USA: Toll-Free: 1.888.5437351
General inquires:
info.usa@kiesel.com

Kiesel Bauchemie GmbH u. Co. KG
Wolf-Hirth-Strasse 2
73730 Esslingen, Germany
Phone: +49 711 93134-0
Telefax: +49 711 93134-140
www.kiesel.com

CEO:
Wolfgang Kiesel, Dr. Matthias Hirsch,
Beatrice Kiesel-Luik
Personally liable partner:
Kiesel Verwaltungsges. mbh
Stuttgart District Court HRB 210484
Registered office of the company:
73730 Esslingen, Germany
Stuttgart District Court HRA 210806



Coverage

Coverage is approximate and is given for estimating purposes only. It may vary according to substrate conditions and other factors.

Trowel size	Coverage (Powder)
Square notched trowel $\frac{1}{4}'' \times \frac{1}{4}'' \times \frac{1}{4}''$	Approx. 134 ft ² . per bag (1.6 kg/m ²)
Square notched trowel $\frac{5}{16}'' \times \frac{5}{16}'' \times \frac{5}{16}''$ or equivalent (8 mm TKB C4)	Approx. 93 ft ² . per bag (2.3 kg/m ²)
Square notched trowel $\frac{3}{8}'' \times \frac{3}{8}'' \times \frac{3}{8}''$ or equivalent (10 mm TKB C5)	Approx. 76 ft ² . per bag (2.8 kg/m ²)
Medium bed trowel / NTCA G4 ($\frac{3}{4}'' \times \frac{9}{16}'' \times \frac{3}{8}''$) (TKB M1)	Approx. 58 ft ² . per bag (3.7 kg/m ²)

Cleaning

Clean tools and tile surface immediately with water.

Packaging

Description	Item No.
54 x 20 kg/ 44 lbs paper bags white	08063

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: 14.08.2020/vm

Kiesel Technical Department
of North America
Canada: Toll-Free: 1.888.5437351
General inquires:
info.canada@kiesel.com
USA: Toll-Free: 1.888.5437351
General inquires:
info.usa@kiesel.com

Kiesel Bauchemie GmbH u. Co. KG
Wolf-Hirth-Strasse 2
73730 Esslingen, Germany
Phone: +49 711 93134-0
Telefax: +49 711 93134-140
www.kiesel.com

CEO:
Wolfgang Kiesel, Dr. Matthias Hirsch,
Beatrice Kiesel-Luik
Personally liable partner:
Kiesel Verwaltungsges. mbh
Stuttgart District Court HRB 210484
Registered office of the company:
73730 Esslingen, Germany
Stuttgart District Court HRA 210806

