

DATASHEET

Servoflex-Trio-SuperTec

Flexible full transfer thin set and medium bed mortar

- adjustable mortar consistency
- rapid hardening development (can be exposed to final heavy commercial traffic after three days only *)
- full mortar transfer (at 7L or 1.8 US gallons)
- no billowing of mortar through joints
- can be used on exterior grade and industry approved plywood***
- for interior and exterior application
- reliable curing at low temperatures
- can also be used over heated screed, balconies and patios
- also for porcelain stoneware installations
- in compliance with EN 12 004 C2 FE-S1, ANSI A 118.4
- real multipurpose properties
- white version available
- SuperTec-technology for dense mortar matrix self-curing characteristics for vibration installation method



SuperTec

Ideal for
**Okalift
SuperChange**



PRODUCT DESCRIPTION

Flexible, acrylic polymer, 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.

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.

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Servoflex-Trio-SuperTec will hold heavy stone without sagging.

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 US gal. (7.0 litres) per bag you yield a pourable floating bed mortar allowing an even installation without air pockets. Thus the back buttering-floating technique does not apply here.

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

SUBSTRATE PREPARATION

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

The substrate must be ready for installation, dry, clean and structurally load bearing. 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**. The maximum layer thickness on mastic screed is ¼" (5 mm). Prime non-absorbent substrates with **Okatmos® UG 30**. In exterior areas apply a contact layer of adhesive mortar and let it set.

North America only***:

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 (1 ¼") total thickness in residential and light commercial and dry conditions only. Refer to ANSI A 108 AN-2 "General Requirements for Subsurfaces" 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 requirement located in Tile Council of North America's "Handbook for Ceramic Tile Installation" and TTMAC Specification Guide. Follow deflection allowance in accordance to ASTM C627 Standard test method. In some cases, the maximum deflection must not exceed L/720.

Contact Kiesel technical department for additional recommendation related to the tile sizes and installation over approved double layered plywood.

PROCESSING

Mix **Servoflex-Trio-SuperTec** with cold, clean water to a smooth texture. 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.

SPECIFICATIONS

Color gray, white

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Application	interior, exterior** and submerged environment**, especially on floors
Thickness	max. ¾" 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 US gal./44 lbs. powder (approx.x 5.6l/20 kg) floor consistency: approx. 1.8US gal./44 lbs. powder (approx. 7.0/20 kg) viscous slurry: approx. 10.0 l / 20 kg powder (water ratio approx. 45-50%) per application
Slack 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}
Storage	approx. 12 months in the dry area, unopened packaging

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

** Avoid air entrapment doing exterior and underwater installations. Apply mortar on substrate and backside of tiles (buttering-floating).

COVERAGE

	Coverage (powder)
square notched trowel ¼" x ¼" x ¼" or equivalent (6 mm TKB C2)	approx. 134 sq. ft. per bag (1.6 kg/m ²)
square notched trowel 5/16" x 5/16" x 5/16" or equivalent (8 mm TKB C4)	approx. 93 sq. ft. per bag (2.3 kg/m ²)
square notched trowel 3/8" x 3/8" x 3/8" or equivalent (10 mm TKB C5)	approx. 76 sq. ft. per bag (2.8 kg/m ²)
medium bed trowel / NTCA G4 (3/4" x 9/16" x 3/8")(TKB M1)	approx. 58 sq. ft. per bag (3.7 kg/m ²)

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

conditions and other factors.

CLEANING

Clean tools and tile surface immediately with water.

PACKAGING

Product description	Item no.	Item no.
54 x 44 lbs. (20 kg) paper bags grey	80180	
54 x 44 lbs. (20 kg) paper bags white	80182	

SAFETY NOTICE

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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