

PRODUCT DATA SHEET

SikaLevel[®]-564

(formerly MTop 564)

Polymer Modified Cementitious based floor screed

DESCRIPTION

SikaLevel[®]-564 is a single component, non-structural, and pre-blended cementitious mortar screed compound.

SikaLevel[®]-564 is mixed with a specified quantity of water to make an easily workable mortar to give a levelled surface ready for subsequent topping such as Sikafloor[®] Epoxy or PurCem[®] or Sika[®] Ucrete[®] products range. SikaLevel[®]-564 can be applied from 20 to 40 mm thick.

USES

SikaLevel[®]-564 is recommended for use as floor leveler on uneven horizontal surface before laying top coating such as Sikafloor[®] Epoxy or PurCem[®] or Sika[®] Ucrete[®] product range.

FEATURES

- Polymer Modified - Improved flexural and bond strengths
- Workability - Easy to place to get level surface for laying Sikafloor[®] Epoxy or PurCem[®] or Sika[®] Ucrete[®] product range to give excellent finishing.
- Shrinkage compensated - Provides repair integrity
- Pre-packed, preformulated - Ready to use. No batching errors

PRODUCT INFORMATION

Composition	Mortar modified with polymer
Packaging	25 kg bag
Appearance and colour	Ready to use dry powder cement based mortar with an aggregate grading/grey.
Shelf life	9 months from date of production if store properly in original, unopened and undamaged sealed packaging
Storage conditions	Store in dry conditions at temperatures between +18 °C and +35 °C. Protect from moisture, direct sunlight and frost. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

TECHNICAL INFORMATION

Compressive strength	3 days	~25 N/mm ² *	(ASTM C109)
	28 days	~50 N/mm ² *	
	*) Tested using 3.25 L of water/25 kg bag		

Flexural-strength	28 days *) Tested using 3.25 L of water/25 kg bag	~3.0 N/mm ² *	(ASTM C-348)
Tensile adhesion strength	28 days	~1.5 N/mm ² Highly dependent on performance of bonding agent (concrete failure)	(ASTM C1583/C1583M)

APPLICATION INFORMATION

Mixing ratio	3.25 to 3.50 L of water per 25 kg bag dependent on the desired consistency.		
Consumption	The consumption depends, on the floor profile. On a normal flat surface, typical consumption of SikaLevel®-564 powder is 22 - 23 kg/m ² per 10 mm thickness.		
Ambient air temperature	+10 °C to +35 °C		
Waiting time to overcoating	Suitable for overcoating with impermeable moisture sensitive floors normally reached after 3 – 7 days, depend on the substrate requirement of the topping.		
Applied product ready for use	Foot Traffic	>8 hours*	
	Lightly serviceable	~48 hours*	
	Fully serviceable	~5 days*	
	*at +25 °C and 70 % r.h. Note: Times are approximate and will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity.		
Flowability	Flowcone (@ 25 strokes)	14-22 cm	(ASTM C230/230M)
Initial set time	2.5 - 5 h		

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Very absorbent substrates must be saturated with water or primed to prevent loss of the mixing water into the substrate, which can cause problems such as shrinkage, the appearance of surface pores or weak and dusty surfaces etc.
- Do not mix with other cements or cement based screeds.
- Freshly applied SikaLevel®-564 must be protected from damp, condensation and water for at least 24 hours.
- Do not exceed the recommended water dosage. Do not add more water when the product is starting to set.
- Temperatures below +20 °C extend the drying times.
- SikaLevel®-564 does not provide an aesthetic finish. Product must always be overcoated or any finishing process.
- Protect from direct sunlight, hot or strong winds and extremes of temperature to avoid cracking or crazing.
- When overcoating with Sikafloor® Epoxy or PurCem® or Sika® Ucrete® or others Sika® product range, additional mechanical preparation may be required to remove any laitance which may have formed during application.
- For the large area, to minimize shrinkage and de-bonding / de-lamination used shear connector every 50 cm and Wire Mesh should be applied (wire mesh diameter depending on thickness desired), positioned the wire mesh in the center of the mortar layer or according to project engineer recommendations.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

- The concrete substrate must be sound and of sufficient compressive strength (min. 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

SUBSTRATE PREPARATION

- The substrate must be structurally sound, clean, dry and free of all contaminants e.g. dirt, oils, grease, coatings and surface treatments etc.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum cleaner.
- The substrate can be in a SSD condition, but there must be no rising moisture prior to the dampening operation, according to ASTM D 4263 (Polyethylene-sheet test).
- Used SBR, Acrylic Polymer or Epoxy based bonding agent, depending on traffic conditions.
- If in doubt apply a test area first.

MIXING

Using Hand mixer :

Put appropriate quantity of clean water (depend on the desired flow) into a mixing vessel. Add slowly the total content mortar of SikaLevel®-564 while mixing. Mix continuously for 2 - 3 minutes until lumps free. Use a mechanically low speed drill (400–600 rpm) with mixing paddle.

Note: SikaLevel®-564 should be used immediately after mixing.

APPLICATION

Areas to be placed with SikaLevel®-564 should be protected from wind and direct sunlight to avoid rapid drying.

Mixed material have to be poured immediately. Place by pouring and spread by trowel, for large areas the usage of formwork and mortar screeder is recommended.

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CURING TREATMENT

After pouring, protect SikaLevel®-564 effectively for at least 9–10 hours after laying from drying out by direct sunlight and wind, spillage, dust, insects, animals, following trades, traffic, etc. Need wet cure for a minimum 3 days with wet hessian, plastic sheet or apply a curing compound (Antisol S).

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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