

BUILDING PRODUCT INFORMATION SHEET

Sika FastFix[®]-125

Rapid set high strength cementitious concrete-repair compound

DESCRIPTION

Sika FastFix[®]-125 is a one-part pre-packaged concrete mix to which water is added on site. It is based on a blend of inorganic cements, modifying additives to control rate of setting and strength gain, and pre-graded aggregates which provide a non-segregating durable concrete mix. It does not contain calcium chloride. The special blend of cements minimizes shrinkage and reduces stress at the bond line.

USES

For the emergency reinstatement of localised patches in concrete pavements, airport aprons, access ramps, roadways and many industrial situations such as gangways and warehouse floors. Sika FastFix[®]-125 is designed for large volume repair work in voids of a minimum depth of 15 mm.

PRODUCT INFORMATION

Product identifier	Sika FastFix [®] -125
Place of manufacture	Aotearoa New Zealand
Packaging	25 kg bags
Shelf life	Twelve (12) months from date of production if stored correctly.
Storage conditions	Store properly in original unopened, sealed and undamaged packaging in dry conditions at temperatures between +5°C and +30°C.
Appearance and colour	Grey/brown powder

TECHNICAL INFORMATION

Compressive strength	Temp.	2 Hours	24 Hours	28 Days	(EN 196-1)
	20°C	28 MPa	40 MPa	>50 MPa	

APPLICATION INFORMATION

Yield	Sika FastFix [®] -125 will yield 12 litres of mix per 25 kg bag		
Setting time	Working Time	Initial Set	Final Set
	30 minutes	45 minutes	50 minutes

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MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses	<p>Note: This product is a concrete repair / protection product and on its own is not within the scope of the NZ Building Code. However when used for the repair of defects in concrete (manufactured to NZS3104) arising from the placement and construction process, as defined in NZS 3109: 1997 clauses 7.7.5 and 7.7.6, it will contribute to meeting the requirements of the following NZBC clauses</p> <p>B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, b, d, e, f, g, h, j, q)) B1.3.4</p> <p>B2 Durability: Performance clause B2.3.1-(a) not less than 50 years</p> <p>F2 Hazardous Building Materials: Performance clause F2.3.1</p>
Building Code compliance statements	<p>Performance B1.3.1, B1.3.2, B1.3.3 (a, b, d, e, f, g, h, j, q)) B1.3.4: This SikaGrout product has been evaluated in accordance with a B1/VM1 compliance method. When used as a grout in "Drossbach" ducts, which have been cast into precast concrete elements; and the connection has been designed by a suitability qualified structural engineer, in accordance with the lap-splice provisions of NZS3101:2006, and the guidance provided by SESOC in the document "Precast Concrete - Grouted Connections and Drossbachs - SESOC Guidance", it contributes to meeting the preceding B1 Structure performance clauses</p> <p>Performance B2.3.1 (a) 50 years: This product has been evaluated in accordance with B2/VM1. It meets this durability requirement and will remain serviceable for 50 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2009.</p> <p>Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required</p>

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- Sika FastFix®-125 should not be used when the temperature is below 5°C or above 35°C.
- Do not mix part bags.
- The product should not be exposed to moving water during application.
- Sika FastFix®-125 is designed for horizontal use.
- It can be applied to small areas of concrete requiring not more than 12 litres of patching material (each bag of Sika Fast-Fix®-125 is designed to produce a 12 litre yield).

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

DESIGN REQUIREMENTS

All structural design work including the specification of Sika CarboDur products and their location within the structure shall only be undertaken by a registered Professional Structural Engineer

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SUBSTRATE PREPARATION

- Areas to be repaired must be scabbled to remove all defective material and provide a good mechanical key.
- Avoid feather edges by first making a saw cut around the perimeter of the repair and breaking away the concrete along this line to a minimum depth of 15 mm.
- All loose material or dust must be thoroughly cleaned from the surface.
- Dry substrates should be thoroughly pre-wetted, and the surface water removed (to achieve what is referred to as a 'saturated surface dry' condition) before the primer is applied.
- The preparation should be such as to allow reinstatement to a minimum depth of 15 mm. The thickness of a single application should not exceed 160 mm.
- For filling in pockets of greater depth, individual layers should be scratchkeyed and allowed to set for at least 3 hours before priming and application of the next layer.

PRIMING

- Use Sika MonoTop-910 N for priming.
- Immediately before priming, surface water should be removed by brushing off or blowing away with clean compressed air.
- The substrate is ready to prime when the surface is damp but all free water has been removed.
- Re-dampen any areas of substrate that dry out during the application sequence.
- Thoroughly scrub Sika MonoTop-910 N into the dampened surface taking care to ensure complete coverage, particularly around the edges.
- Apply Sika FastFix-125 whilst the Sika MonoTop-910 N is still tacky.
- The priming operation must be repeated if the initial coat has dried out.

MIXING

- Sika FastFix®-125 must be mixed in a forced action pan mixer or similar type of mixer. A free fall mortar or concrete mixer may not be suitable.
- Always add powder to water.
- 3-5 minutes mixing will generally be sufficient.
- The water requirement will be 2.3 - 2.4 litres per 25 kg bag of Sika FastFix®-125 . Maximum water addition is 2.4 litres per 25 kg bag.
- The mix will appear very dry at the start of mixing. Do not add extra water, as it will become more fluid after 2 to 3 minutes of mixing.
- Do not mix for longer than necessary or delay in using the mixed material, otherwise the available working life will be reduced.

- Only that quantity of Sika FastFix®-125 which can be placed well within its working life should be mixed at any one time.
- The residue of a previously mixed batch left in the mixer will accelerate the setting rate of the subsequent batch, thus reducing the working life available for placement.

APPLICATION

- Apply the mixed material firmly and evenly over the primed surface and tamp with a wood float to achieve complete compaction.
- Strike off the surface to the correct level and finish with a steel trowel to ensure that a fully closed surface is obtained.
- If a textured finish is required this can be achieved by rolling the trowelled surface with a suitably profiled light roller.

CURING TREATMENT

- Sika FastFix®-125 requires curing in accordance with good concreting practice. We recommend the use of Sika Antisol curing membranes for this purpose. (Refer to Sika Antisol data sheet for further information.)
- Where the repair is to be subsequently covered by a floor coating or screed, the curing compound should be carefully selected to ensure compatibility.
- In winter the finished surface should be protected against frost for the first 3 days by the use of insulated covers.

MAINTENANCE REQUIREMENTS

The maintenance requirements for this Sika product are the same as for the host / surrounding substrate

CLEANING

Sika FastFix®-125 should be removed from tools immediately after use with clean water. 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 the 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

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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. It may be necessary to adapt the above dis-

claimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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