BUILDING TRUST

PRODUCT DATA 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 gang-ways and warehouse floors. Sika® FastFix-125 is de-signed for large volume repair work in voids of a min-imum depth of 15 mm.

CHARACTERISTICS / ADVANTAGES

- Rapid set minimises operational disruption.
- Low internal stress and intimacy of surface contact ensures excellent bond to concrete substrate.
- Shrinkage controlled: minimizes risk of cracking or debonding.
- Quality controlled pre-packaged material eliminates site batching variations.

PRODUCT INFORMATION

Packaging	25 kg bags
Appearance / Colour	Grey/brown powder
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 +5ºC and +30ºC.

TECHNICAL INFORMATION

Compressive Strength (EN 196-1)

Temp.	2 Hours	24 Hours	28 Days
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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- 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.

CLEANING

Sika® FastFix-125 should be removed from tools immediately after use with clean water. Cured material can only be removed mechanically.

LIMITATIONS

- 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® FastFix-125 is designed to produce a 12 litre yield).

BASIS OF PRODUCT DATA

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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.

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

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