

PRODUCT DATA SHEET

Sika FastFix[®]-400 Road TH

Fast-setting, fibre-reinforced repair mortar for thin to medium thickness applications

DESCRIPTION

Sika FastFix[®]-400 Road TH is a one-part pre-packaged mortar mix to which water is added on site. It is based on a blend of inorganic cements, modifying additives to control rate of setting, strength gain and minimizes shrinkage. Pre-graded aggregates provide a non-segregating mix.

USES

- Repair of concrete floors, walkways and roads.
- Bedding for high-traffic paving and road surface.
- Leveling concrete roof slab before waterproofing.

FEATURES

- Fast setting and quick opening to traffic.
- High compressive strength.
- Consistency adjustable with a wide range of water content.
- High early compressive strength > 15 MPa after 2 hours, > 25 MPa after 3 hours and > 35 MPa after 4 hours.

PRODUCT INFORMATION

Packaging	25 kg / bag
Shelf life	6 months from the date of production If stored properly in undamaged, original sealed packaging.
Storage conditions	Store in dry conditions and protected from direct sunlight.
Density	~2.15 kg /L (fresh density)
Maximum grain size	~2 mm.

TECHNICAL INFORMATION

Compressive strength	3 Hours	4 Hours	24 Hours	28 Days	(ASTM C109)
	> 25 MPa	> 35 MPa	> 40 MPa	> 55 MPa	
Flexural-strength		4 Hours	24 Hours	28 Days	(ASTM C348)
		~ 5 MPa	~ 6 MPa	~ 7 MPa	
Tensile adhesion strength	~ 1.5 MPa				(ASTM C1583)
Bleeding	0%				(ASTM C940)

APPLICATION INFORMATION

Mixing ratio	<u>Application / Consistency</u>	<u>Water (%)</u>
	<u>Slope adjustment / Slope surface</u>	<u>15% - 16% (depend on the surface)</u>
	<u>Semi flow - General surface</u>	<u>17% - 18%</u>
Consumption	Approx. 1.8 kg of powder for one litre of mortar. For 1 m ³ of mortar: approx. 73 bags (25 kg each) and 328.5 litres of water	
Pot Life	10 - 20 Minutes (depending on temperature)	
Initial set time	20 - 30 Minutes (depending on temperature)	
Final set time	30 - 40 Minutes (depending on temperature)	
Surface temperature	+ 5°C to +35°C	

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.

IMPORTANT CONSIDERATIONS

- Temperature range for use : +5°C to +35°C.
- Do not mix with other product.
- Damp the concrete surface before application.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

1. Surface must be clean and without any trace of oil, laitance, curing compound, damaged concrete or paint.
2. In case of sealing, material that will be sealed must be clean without any trace of oil or any curing compound.
3. For repairing application, damaged concrete must be removed before applying.
4. Application thickness must be at least 5 mm and not exceeding 15 mm.
5. Damp the surface before application.

MIXING

1. The quantity of water used depends on the consistency required.
2. Mixing should be carried out as follows using a mechanical mixer at approximately 500 rpm.
3. Mixing time: at least 3 minutes or until the required consistency is obtained.
4. Leave the mixture to stand for 1 – 3 minutes.
5. Do not add water after mixing.

APPLICATION

Repairs to industrial floor, concrete walkway and road

1. Cure the concrete surface and formwork with clean water.
2. Remove the residual water prior to application.
3. Pour material into prepared area until completely filled.
4. Smooth the surface with a trowel.
5. Tining concrete surface with a tining rake before final setting time.

CURING TREATMENT

Sika FastFix®-400 Road TH cures with low shrinkage. To prevent premature drying out of the mortar, keep it moist if exposed to strong sunshine and wind. Standard curing methods are recommended.

CLEANING OF EQUIPMENT

Clean all tools and equipment with water immediately after use. Hardened mortar can only be removed mechanically.

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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