

## PRODUCT DATA SHEET

# Sika MonoTop®-2400 Tie Fill

ONE COMPONENT, POLYMER MODIFIED, TIE ROD HOLE FILLER

## DESCRIPTION

Sika MonoTop®-2400 Tie Fill is a highly polymer modified cementitious mortar containing silica fume. Suitable for use in hot and tropical climatic conditions.

## USES

Sika MonoTop®-2400 Tie Fill is specially formulated for filling of tie holes formed by formwork tie rods in new construction.

Sika MonoTop®-2400 Tie Fill can also be used as a:

- Sealing & grouting of holes and voids
- Pore sealer / finishing coat on cementitious substrates
- Fine repair mortar to fill light honeycombs, pores etc.
- Repair mortar for repair of small defects on edges and joint sides; to form and finish joints and coverings

## CHARACTERISTICS / ADVANTAGES

- Easy to use, mix with water only
- User friendly application; excellent workability
- Good mechanical strengths
- Non-corrosive
- Adjustable consistency
- High bond strength due to high polymer content

## PRODUCT INFORMATION

<b>Composition</b>	Polymer containing cementitious mortar with different additives
<b>Packaging</b>	25 kg bag
<b>Shelf life</b>	12 months from date of production if stored properly in original sealed packaging
<b>Storage conditions</b>	Store in cool and dry conditions in unopened, undamaged and sealed original packaging at temperatures between +10 °C and +35 °C. Protect from direct sunlight, heat and moisture.
<b>Appearance and colour</b>	Grey powder
<b>Maximum grain size</b>	~0.6 mm

## TECHNICAL INFORMATION

Compressive strength	<u>w/p ratio</u> 0.17	<u>28 days</u> ~25 N/mm <sup>2</sup>	(EN 12190)
Tensile strength in flexure	~5 N/mm <sup>2</sup> (at 28 days)		(EN 12190)
Tensile adhesion strength	To concrete: ~1.0 N/mm <sup>2</sup>		(EN 1542)

## APPLICATION INFORMATION

Mixing ratio	4.25 - 4.50 L of water per 25 kg bag		
Fresh mortar density	~2.07 kg/l		
Yield	~14.25 L / 25 kg bag		
Layer thickness	Up to 25 mm for tie rod hole filling application		
Ambient air temperature	+5 °C min. / +40 °C max.		
Substrate temperature	+5 °C min. / +40 °C max.		
Pot Life	~60 minutes (at +23°C)		
Initial set time	5 hours (at +23 °C)		(VICAT test)
Final set time	7 hours (at +23 °C)		(VICAT test)

## 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

- Protect freshly applied material from rain etc.
- Sika MonoTop®-2400 Tie Fill should not be used at temperatures below 5 °C.
- At ambient temperatures above +35°C, the material should be stored in the shade and chilled water should be used for mixing.
- Sika MonoTop®-2400 Tie Fill may be over-coated with Sika protective coatings such as SikaTop® Seal-107, Sika® Seal-105, Sikagard®-550 W Elastic (G) and other suitable SikaRep® or Sika MonoTop® products. Refer to relevant product data sheets.
- Always start with minimum recommended quantity of water (water/powder ratio), only if required, gradually add water to desired consistency. Do not exceed maximum allowed limit of water per bag weight.

## 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 / PRE-TREATMENT

The cement based substrate must be structurally sound, cement laitance free, clean and free from dirt, oil, grease or other contaminants and loose or friable particles.

Tie holes plastic tube should be lightly abraded using hole cleaning steel brush. Remove any contaminants inside of tube by water under pressure. Dry the hole by air blower before application of Sika MonoTop®-2400 Tie Fill.

### MIXING

Pour clean, cold water in given quantity into the mixing container.

Add powder while mixing continuously using a low speed electric mixer (max. 500 rpm) for a minimum of 3 minutes avoiding entrapping of air.

By adding the powder slowly and in portions, the desired application consistency can be obtained.

Leave material to stand for 5 – 10 minutes then remix the material for 15 seconds - the product is now ready for use.

Do not add extra water or other ingredients after mixing.

## APPLICATION METHOD / TOOLS

Sika MonoTop®-2400 Tie Fill should be applied into the tie hole using positive displacement pump (gun) with suitable extension tube.

Initially, pump the first mix of material through the gun until mix is extruded as a one consistent colour outside of application area. Do not use this material. When consistent and continuous mix is achieved, inject the Sika MonoTop®-2400 Tie Fill into the tie hole, starting from the bottom and slowly pull out the gun while extruding the material into the hole. Avoid entrapping air. For deep holes use extension tubing.

## CURING TREATMENT

Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hours or application of a suitable water based curing compound from Sika's range, is recommended.

Do not commence fogging until final set has been reached.

For application as tie hole filler, no particular type of curing is required except on concrete face area at the hole entrance and exit.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean water immediately after use.

Hardened / cured material can only be mechanically removed.

## 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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All products are supplied under  
a management system certified  
to conform to the requirements  
of the quality, environmental  
and occupational health &  
safety standards ISO 9001,  
ISO 14001 and ISO 45001.

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