

## PRODUCT DATA SHEET

# Sika MonoTop®-112 MultiUse Repair

## Concrete Repair Mortar

### DESCRIPTION

Sika MonoTop®-112 MultiUse Repair is a 1-component ready to use, thixotropic mortar, based on cementitious binder and selected aggregates, containing synthetic microfibers, for concrete repair.

### USES

- Restoration and repair of concrete elements (columns, balcony edges)
- Resurfacing of damaged areas on vertical or horizontal surfaces of concrete
- Reprofiling of concrete surfaces

### FEATURES

- Easy to apply, even overhead
- Good adhesion to most common building materials as concrete, stone, bricks, steel
- Easy to mix, just add water
- Good mechanical properties

### CERTIFICATES AND TEST REPORTS

Repair mortar for structural and non-structural repair of concrete according to EN 1504-3:2005, Declaration of Performance 69245044, certified by notified factory production control certification body 0546, certificate of conformity of the factory production control 18774, and provided with the CE marking.

### PRODUCT INFORMATION

Composition	Cement binder and selected aggregates, synthetic microfibers and specific additives
Packaging	5 kg aluminium bag packed in a cardboard box containing 4 units
Shelf life	18 months
Storage conditions	Store properly in undamaged original sealed packaging, in dry cool conditions.
Appearance and colour	Grey powder
Maximum grain size	$D_{max}$ : 2.5 mm
Density	Fresh mortar density: ~2.05 kg/l
Soluble chloride ion content	≤ 0.05% (EN 1015-17)

### TECHNICAL INFORMATION

Compressive strength	~50 MPa after 28 days (EN 12190)
Modulus of elasticity in compression	~15.7 GPa (EN 13412)

<b>Tensile adhesion strength</b>	~2 MPa	(EN 1542)
<b>Thermal compatibility</b>	~2 MPa (Part 1- Freeze-Thaw)	(EN 13687-1)
<b>Capillary absorption</b>	≤ 0.5 kg.m <sup>-2</sup> .h <sup>-0.5</sup>	(EN 13057)
<b>Carbonation resistance</b>	d <sub>k</sub> ≤ control concrete (MC (0.45))	(EN 13295)
<b>Reaction to fire</b>	Euroclass A1	(EN 13501-1)

## APPLICATION INFORMATION

<b>Consumption</b>	This depends on the substrate roughness and thickness of layer applied. As a guide, ~18 kg/m <sup>2</sup> per cm thick per m <sup>2</sup> .	
<b>Yield</b>	5 kg of powder yields approximately 2.83 litres of mortar.	
<b>Layer thickness</b>	5 mm min. / 25 mm max.	
	For a higher thickness just add over more layers when the previous one has hardened.	
<b>Ambient air temperature</b>	+5 °C minimum / +35 °C maximum	
<b>Mixing ratio</b>	0.7–0.84 litres of water for 5 kg of powder. 14 % – 16 % litres of water by weight of powder.	
<b>Substrate temperature</b>	+5 °C minimum / +35 °C maximum	
<b>Pot Life</b>	~60 minutes at +23 °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

- Avoid application in direct sun and/or strong wind.
- Do not add water over recommended dosage.
- Apply only to sound, prepared substrate.
- Do not add additional water during the surface finishing as this will cause discolouration and cracking.
- Protect freshly applied material from freezing.
- Do not add anything to the product that is not specified in this product data sheet.

## 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

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete:

The substrate must be structurally sound and free from dust, dirt, loose material, surface contamination as oil or grease, cement laitance.

Steel reinforcement:

Steel surface must be clean from rust products, oil,

grease, dust and other loose materials which may reduce bond or may contribute to corrosion.

### MIXING

Sika MonoTop®-112 MultiUse Repair can be mixed with a low speed hand drill mixer. In small quantity the Product can also be manually mixed. Pour the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes. Add additional water during this time if necessary to the maximum specified amount and adjust to the required consistency.

### APPLICATION

Thoroughly pre-wet the prepared substrate. Keep the surface wet and do not allow to dry. Before application, remove excess of water, e.g. with a clean sponge. The surface shall appear a dark matt appearance without glistening and surface pores and pits shall not contain water.

For small restoration works such as repair of concrete structures, decoration of balconies, sides of pillars Sika MonoTop®-112 MultiUse Repair can be applied with a trowel. First make a scratch coat by firmly scrapping the repair mortar over the substrate surface to form a thin layer. Build up layers from bottom to top by pressing the mortar well into the repair area. The surface can be finished with a sponge trowel, to pass a few minutes after application, as soon as the mortar has started to stiffen.

## CURING TREATMENT

Protect the fresh mortar immediately from premature drying using an appropriate curing method, e.g. curing compound, moist geotextile membrane, polythene sheet, etc.

## CLEANING OF EQUIPMENT

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

## LOCAL RESTRICTIONS

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

## LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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### PRODUCT DATA SHEET

Sika MonoTop®-112 MultiUse Repair  
July 2024, Version 01.01  
020302040030000144

SikaMonoTop-112MultiUseRepair-en-DK-(07-2024)-1-1.pdf