

# Sika® MonoTop®-613 IND

Fibre reinforced repair mortar

<b>Product Description</b>	Sika MonoTop-613 IND is cementitious, fiber reinforced; polymer modified one-component repair mortar.
<b>Uses</b>	For concrete repairs, especially suitable for wet-spray method.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ To be mixed with water only</li> <li>■ Excellent workability</li> <li>■ Adjustable consistency</li> <li>■ Excellent thixotropic behaviour, suitable for overhead and vertical applications</li> <li>■ Good mechanical strengths</li> <li>■ Excellent frost resistance</li> <li>■ Applicable in layers up to 50 mm thickness</li> <li>■ Non corrosive, non-toxic</li> <li>■ Suitable for wet spray application</li> </ul>

## Product Data

<b>Form</b>	Powder
<b>Colour</b>	Grey
<b>Mix Ratio</b>	Water : Powder = 1 : 7.3 – 8.1 parts by weight (i.e. approx 3.25 litre water per bag 25 kg)
<b>Pot Life (30 °C)</b>	25 minutes
<b>Storage</b>	Store in dry, cool and shaded place
<b>Shelf Life</b>	9 months from date of production if stored properly in unopened original packing
<b>Packaging</b>	25 kg paper bag

## Technical Data

<b>Density</b>	~ 2.05 kg/ ltr (density of fresh mortar)	
<b>Compressive strengths</b>	1 day ~ 15 N/mm <sup>2</sup> 7 days ~ 35 N/mm <sup>2</sup> 28 days ~ 45 N/mm <sup>2</sup>	(ASTM C109)
<b>Flexural strengths</b>	1 day ~ 5 N/mm <sup>2</sup> 7 days ~ 8 N/mm <sup>2</sup> 28 days ~ 10 N/mm <sup>2</sup>	(ASTM C348)
<b>Modulus of Elasticity</b>	~ 20'000 N/mm <sup>2</sup>	
<b>Bond strengths</b>	28 days ~ 1.5 N/mm <sup>2</sup> (concrete failure, without bonding slurry) 28 days ~ 2.2 N/mm <sup>2</sup> (concrete failure, with SikaTop-121 as a bonding slurry)	

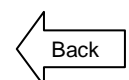


Table of Contents

## Application

<b>Limitations</b>	Application temperature :	- Minimum	+5°C
		- Maximum	+30°C
	Layer thickness per application :	- Minimum	5 mm
		- Maximum	50 mm

<b>Material consumption</b>	For 1 litre of fresh mortar: 1.85 – 1.9 kg powder are required Material consumption depends on concrete surface and application method. On level substrate consumption is approx. 18.5 – 19.5 kg of dry mortar (powder) per m <sup>2</sup> at 10 mm layer thickness.
-----------------------------	---

<b>Substrate</b>	Substrate must be sound, free of loose or weak particles, dust and dirt. Oil and wax containing layers, as well as laitance must be completely removed.  For optimum bond, surfaces shall be well-roughened.
------------------	--

<b>Mixing</b>	Pour water in given quantity into the mixing container. Add powder while mixing continuously. Use low speed electric mixers (max. 500 RPM) for 3 minutes avoiding entrapping of air. By adding the powder in portions, the desired application consistency can be obtained.
---------------	---

<b>Application</b>	Sika MonoTop-613 IND can be applied by wet-spray equipment such as Putzmeister, Melomat, Vario-Jet etc. The mortar can also be applied with spatula or trowel. The mortar is applied on well-saturated concrete substrate. For thickness greater than 50 mm Sika MonoTop-613 IND must be applied in several layers. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float or a styrofoam block.
--------------------	--

<b>Notes</b>	No additional water must be used.  To achieve good bonding it is recommended to apply SikaTop 121 as bonding coat especially on large area application  Sika MonoTop-613 IND cures with low shrinkage.  To prevent premature drying out of the mortar, keep it moist if exposed to strong sunshine or wind. Standard curing methods are recommended.  For very fine surface finish, the application of SikaTop 121 as filling compound on top of Sika MonoTop 613 IND is advised.
--------------	---

<b>Cleaning</b>	Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.
-----------------	--

## Safety instructions

<b>Safety precautions</b>	Sika MonoTop-613 IND is caustic (cement). Protect skin and eyes from contact with mortar. Wear protective clothing and goggles while working the product.
---------------------------	---

<b>Ecology</b>	Do not dispose of into water or soil but according to local regulations.
----------------	--

<b>Transport</b>	Non-hazardous.
------------------	----------------

<b>Toxicity</b>	Non-toxic
-----------------	-----------

## 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 product 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.



**PT. Sika Indonesia**  
 Jl. Raya Cibinong- Bekasi km. 20  
 Limusnunggal- Cileungsi  
 BOGOR 16820 - Indonesia  
 Tel. +62 21 8230025  
 Fax +62 21 8230026  
 Website : idn.sika.com  
 e-mail: [sikacare@id.sika.com](mailto:sikacare@id.sika.com)

**Branches**  
 Surabaya :  
 Komp. Pergudangan Meiko Abadi III Blok B-52 & B-53, Ds. Gemurung,  
 Gedangan, Sidoarjo 61254  
 Tel : 031- 8911333; Fax : 031-8916333  
 Medan :  
 Jl. Serbaguna (Simp. Jalan Veteran), Kompleks Pergudangan Brayon  
 Trade Center No. 34, Medan 20239  
 Tel : 844 6697, 844 6997 ; Fax : (061) 844 6698  
 Batam :  
 Jl. Laksamana Bintan, Komp. Bumi Riau Makmur Blok E No.3, Sungai Panas  
 Tel : (0778) 424928; Fax : (0778) 450189

