

PRODUCT DATA SHEET

SikaTop®-121

POLYMER MODIFIED, PATCHING AND ADHESIVE MORTAR

DESCRIPTION

A thixotropic, two-component cement based polymer modified trowelable adhesive and filling compound for the protection and repair concrete surfaces.

USES

- Protective coating for bridge parapets retaining walls
- Filling compound to level of irregularities and fill blowholes and fine honey combings.
- Bonding mortar between new and old concrete
- Rendering for reservoirs.

CHARACTERISTICS / ADVANTAGES

- Easy to mix and apply
- Excellent adhesion
- Good mechanical strength
- Increase resistance to salt water, chlorides and carbonation
- Waterproof
- Non corrosive to steel, non-flammable
- Non-toxic
- High abrasion resistance

APPROVAL / STANDARDS

Tested according to ASTM C-109, C-348, and C-496

PRODUCT INFORMATION

Packaging	25 kg (A+B set)	
Appearance / Colour	Form	Colour
	Part A = Liquid	Concrete grey
	Part B = Powder	
Shelf Life	9 months from date of production if stored properly in unopened original packing.	
Storage Condition	Store in dry, cool and shaded place.	
Density	Approx. 2.1 kg/L	

TECHNICAL INFORMATION

Compressive Strength	3 days	~25.0 N/mm ²	(ASTM C-109)
	7 days	~30.0 N/mm ²	
	28 days	~42.0 N/mm ²	
Tensile Strength in Flexure	1 day	~4.0 N/mm ²	(ASTM C-348)
	7 days	~10.0 N/mm ²	
	28 days	~14.0 N/mm ²	

Tensile Adhesion Strength	28 days	$\geq 1.5 \text{ N/mm}^2$	(concrete failure)
Modulus of Elasticity	$\sim 18'000 \text{ N/mm}^2$		

APPLICATION INFORMATION

Mixing Ratio	Comp. A : B = 1 : 5 by weight		
Consumption	2.1 kg/m ² per mm thickness		
Pot Life	~25 minutes.	(at +30 °C)	

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Remove all deteriorated concrete, dirt, oil, grease and all bond-inhibiting. Surface preparation should be done by scabber or other appropriate mechanical means to obtain an aggregate-fractured surface.

Substrate should be saturated surface dry (SSD) with no standing water during application.

MIXING

Pour approximately 4/5 of component 'A' into mixing container. Add Component 'B' while continuing to mix. Mix to a uniform consistency, for 3 minutes. Add remaining component 'A' to mix if a greater consistency is desired. Use a mechanically powered low speed drill (400 – 600 rpm) with mixing paddle or appropriately sized mortar mixer.

APPLICATION

As patching mortar.

Apply with spatula or trowel to desire profile and smooth finish.

As a bonding agent

Apply with a notched trowel

When using as bonding agent to be rendered later, allow to harden first

As a tile adhesive

Apply to the desired thickness with a notched trowel. Press the tiles firmly into place while the adhesive is still wet.

CURING TREATMENT

Use approved curing methods, like Antisol curing compound etc.

PT. Sika Indonesia

Jl. Raya Cibinong-Bekasi km.20.

Cileungsi, Bogor 16820 - Indonesia

Tel. +62 21 8230025

Fax. +62 21 8230026

Website: idn.sika.com

email: sikacare@id.sika.com



PRODUCT DATA SHEET
SikaTop®-121
February 2017
020302040050000001

LIMITATIONS

Maximum thickness per application : 5 mm

Variation in cement could cause shade differences in colour of the mortar.

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 declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

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.