

## PRODUCT DATA SHEET

# Sika MonoTop®-222 Patch Repair

General purpose shrinkage compensated patch repair mortar

## DESCRIPTION

Sika MonoTop®-222 Patch Repair is a cementitious shrinkage compensated mortar designed for all general purpose patch repairs. It requires only on site addition of water to produce a high strength, shrinkage compensated mortar that is non-corrosive, non-oxidising and free of chlorides and nitrates.

## USES

- Patching of joints between precast and structural components
- Repairs concrete structures and pre-cast components, e.g. damaged corners
- Patch repairs to vertical, soffit and flooring concrete surfaces
- Filling concrete cavities in electrical, piping and air-conditioning works
- Securing foundation and anchor bolts, pipe clips, sanitary wares, etc.
- Repair concrete conduits, drains, etc.
- Surface irregularities repairs including exposed aggregates, joints between new and old concrete, protruding steel, tie-rod holes in formwork concrete, etc.

## CHARACTERISTICS / ADVANTAGES

- Non-bleeding and non-segregation
- Shrinkage-compensating
- High early compressive and flexural strength
- Non-corrosive and non-toxic
- Chlorides and iron free
- Pre-mixed to eliminate site variations and errors

## PRODUCT INFORMATION

<b>Packaging</b>	25 kg bag
<b>Shelf Life</b>	6 months from date of production
<b>Storage Conditions</b>	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from water, rain and direct sunlight.
<b>Appearance / Colour</b>	Grey powder

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	> 40 N/mm <sup>2</sup>	(ASTM C109:2016a)
-----------------------------	------------------------	-------------------

## APPLICATION INFORMATION

Mixing Ratio	3.6–4.5 L of water per 25 kg bag	
Fresh Mortar Density	2100 kg/m <sup>2</sup>	
Yield	~0.014m <sup>3</sup> / bag	
Pot Life	~30 minutes at +23 °C	
Initial Set Time	> 1 hr	(BS EN 196:3:2005 + A1:2008)
Final Set Time	< 4 hrs	(BS EN 196:3:2005 + A1:2008)

## 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

- For surfaces subjected to high abrasion, Sika MonoTop®-412 MY should be used as repair mortar.
- Sika MonoTop®-222 Patch Repair should not be used on smooth concrete surfaces. Thorough roughening of the surface will be required.
- Sika MonoTop®-222 Patch Repair should not be used for pouring or pumping into formwork. Kindly refer to SikaGrout® range.
- Cement or admixtures should not be added to Sika MonoTop®-222 Patch Repair.
- Once the mix has begun to set, do not add water.
- Refer to the Method Statement for Concrete Repair using Sika MonoTop® system for more information regarding substrate preparation
- Avoid application under direct sun and/or strong wind.
- Apply only to sound, roughened and well-prepared substrate. Do not add additional water during the surface finishing phase as this will cause discoloration and cracking.

## 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

Substrate should be cleaned and roughened. All loose materials and free water must be removed. Damp the substrate with water before application.

### MIXING

For optimum result, mechanical mixer should be used. The recommended amount of water (3.6–4.5 L) should be measured and poured into the mixer. Slowly add Sika MonoTop®-222 Patch Repair and mix continuously for 4 to 5 minutes.

### APPLICATION

Use a steel trowel to apply the mixed material onto the repair area. If the area that needs to be rectified is congested and cannot be reached with a trowel, use hands (wearing gloves) to push the pasty grout against the substrate and then trowel to a smooth finish. For application of joints between adjacent precast components, ensure that the material covers the joint spaces thoroughly.

For horizontal joints, the subsequent precast component should be laid onto the grout within the pot life after mixing, depending on ambient temperature and conditions.

### CURING TREATMENT

Immediately after finishing, exposed area should be thoroughly cured with wet hessian or curing compound, e.g. Sika® Antisol®

### CLEANING OF TOOLS

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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.

### Sika Kimia Sdn. Bhd.

Lot 689, Nilai Industrial Estate,  
71800 Nilai, Negeri Sembilan D.K.  
Malaysia  
Phone: +606-7991762  
e-mail: info@my.sika.com  
Website: www.sika.com.my



**Product Data Sheet**  
Sika MonoTop®-222 Patch Repair  
April 2023, Version 02.01  
020302040030000521

SikaMonoTop-222PatchRepair-en-MY-(04-2023)-2-1.pdf

