

PRODUCT DATA SHEET

Sika MonoTop®-108 Water Plug IN

Rapid setting mortar for plugging water leakage instantly

DESCRIPTION

Sika MonoTop®-108 Water Plug IN is a ready to use, rapid-setting, waterproof cement mortar for stopping water leaks in concrete and masonry.

USES

- To instantly seal negative water pressure leaks through cracks, gravel pockets and casting joints
- To instantly seal water leakage during waterproofing of water tanks, basements and sunken pits etc.
- Instant sealing of water drainage outlets during waterproofing treatments
- Instant sealing of leakages in concrete/masonry structures
- As plugging mortar for fixing nozzle / grouting ports during injection grouting

CHARACTERISTICS / ADVANTAGES

- Rapid setting prevents washout in the presence of running water
- Hardens within ~2–3 minutes (+27 °C)
- Ready to use, just add water
- Quick strength development
- Non-toxic and chloride free
- Coefficient of thermal expansion is similar to concrete
- Low exothermic, which minimises risk of thermal cracking
- Excellent adhesion with different materials like masonry, concrete, metals, PVC, HDPE, etc.

PRODUCT INFORMATION

Chemical base	Cement and special additives
Packaging	1 kg pouch, 5 kg bags
Shelf life	12 months from date of production
Storage conditions	The product must be stored in undamaged and unopened, original sealed packaging, in dry conditions at temperatures between +10 °C and +35 °C and protected from direct sunlight. Protect from moisture / frost.
Appearance / Colour	Lump free powder / Grey colour

TECHNICAL INFORMATION

Compressive strength	Curing time	Compressive strength	(ASTM C109)
	6 hours	~8 N/mm ²	
	24 hours	~10 N/mm ²	
All values are at curing temperature +30 °C, water / powder = 0.27			

APPLICATION INFORMATION

Mixing ratio	1 kg pouch	0.26–0.28 L of water
	5 kg bag	1.30–1.40 L of water
Note: The mixing ratio must be adjusted based on site conditions and consistency required.		
Fresh mortar density	~2.1 kg/L (at +27 °C, water / powder = 0.27)	(EN ISO 2811-1)
Ambient air temperature	+10 °C min. / +40 °C max.	
Substrate temperature	+10 °C min. / +40 °C max.	
Initial set time	~150 seconds (at +27 °C, water / powder = 0.27)	(EN 196-3)
	Note: Setting times will be affected by ambient, substrate, water and product temperatures.	
	Note: Setting times can be changed by varying the amount of water.	
Final set time	~200 seconds (at +27 °C, water / powder = 0.27)	(EN 196-3)
	Note: Setting times will be affected by ambient, substrate, water and product temperatures.	
	Note: Setting times can be changed by varying the amount of water.	

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

- After setting, the product is no longer useable.
- Only mix an amount of material which can be applied within a few minutes.
- Low temperatures cause setting times to be slightly delayed, high temperatures shorten the setting time.
- Use product only for sealing water leaks. For concrete repair purposes, use a suitable product from the SikaTop® or Sika MonoTop® range.
- Where high water pressures are experienced, the prepared area may need to be increased to provide a larger surface area for bonding and allow a greater quantity of mortar to be applied.
- Preliminary trials are recommended before the final leak sealing application to assess the water quantity required in the mix and the setting times.

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 PREPARATION

- Widen and deepen the leakage area in dove-tail fashion by approximately 20 mm using a chisel to allow a small amount of product to be packed into the void and optimise the bond to the substrate.
- Area of application to be cleaned mechanically to make it free from loosely adhering particles, laitance, oil, grease, etc.

MIXING

1. Pour a small amount of clean water in a suitable mixing container.
2. Add required amount of powder to the water.
3. Stir the mix together quickly with a trowel, spatula or gloved hand to form a mortar which can be applied before the initial setting time.

APPLICATION

1. Mould the mortar by gloved hand for a few seconds into a plug.
2. Apply immediately into the prepared void pressing firmly until the mortar has set.
3. Remove excess material from the substrate by scraping it away with a spatula or trowel after the sealing is complete.
4. In case part of putty is washed away due to water pressure, repeat the application till leakage stops fully.
5. In case of excessive water pressure, drill holes around main leakage point to reduce water pressure and attack main leakage point first and subsequently

- seal/patch other drill holes.
6. Depending on the setting time, a wet sponge can be used to smooth the surface of the plug.

CLEANING OF TOOLS

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

Sika India Pvt. Ltd.

620, Diamond Harbour Road
Commercial Complex II
Kolkata - 700 034
West Bengal, India

Contact:

Phone: +91 33 2447 2448
Fax: +91 33 2397 8688
info.india@in.sika.com
www.sika.in



Product Data Sheet
Sika MonoTop®-108 Water Plug IN
February 2022, Version 01.01
020701010050000021

SikaMonoTop-108WaterPlugIN-en-IN-(02-2022)-1-1.pdf