

PRODUCT DATA SHEET

Sika MonoTop®-110 QuickFix

Quick-setting fixing and repair mortar in convenient 5kg units

PRODUCT DESCRIPTION

Sika MonoTop®-110 QuickFix is a one-component fast-setting fixing and repair mortar based on cementitious binder and selected aggregates, characterised by early strength development, conveniently supplied in 5kg units.

USES

Sika MonoTop®-110 QuickFix has been specifically designed for all those works where a quick-setting mortar is required, for example:

- When a rapid return to service is needed.
- Fixing of brackets, plugs, shelves, pipes, etc.
- Installation of armoured doors and windows.
- Anchoring of stakes, trellises, poles, fences, etc.
- Fast repairs to precast concrete elements.
- Rapid repairs to floors.
- Plugging mortar for leaks.

CHARACTERISTICS / ADVANTAGES

- Easy to mix and use (just add water).
- Can be mechanically or manually mixed.
- Setting after only a few minutes.
- Practical packaging makes it ideal for smaller works.
- Convenient packaging also helps reduce waste (all product can be used).
- Excellent setting properties, even in the presence of moisture.
- Suitable to paint once the material is cured.
- Good adhesion to metal and concrete.
- Allows a rapid return to service.

PRODUCT INFORMATION

Chemical Base	Cement, selected aggregates and additives
Packaging	5kg aluminium bags packed in a cardboard box containing 4 units
Shelf Life	12 months
Storage Conditions	Store properly in undamaged original sealed packaging, in dry cool conditions.
Appearance / Colour	Grey powder
Density	Fresh mortar density ~1.8 kg/l

TECHNICAL INFORMATION

Compressive Strength	Age	Compressive Strength	(EN 196-1)
	3 hours	~6 MPa	
	28 days	~24 MPa	

APPLICATION INFORMATION

Consumption	~2 kg/m ² /mm Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.
Yield	5kg of powder yields approximately 3.36 litres of mortar.
Ambient Air Temperature	+5 °C minimum; +30 °C maximum
Mixing Ratio	0.95 to 1.05 litres of water for 5kg of powder. 19 % to 21 % of water by weight of powder.
Substrate Temperature	+5 °C minimum; +30 °C maximum
Pot Life	~1 to 2 minutes at +23 °C and 50 % r.h. This time is approximate and will be affected by changing environmental conditions and application details (e.g. pot life will be extended at lower temperatures, and reduced in warmer temperatures).
Setting time	~2 to 3 minutes at +23 °C and 50 % r.h. This time is approximate and will be affected by changing environmental conditions and application details (e.g. setting time will be extended at lower temperatures, and reduced in warmer temperatures).
Applied Product Ready for Use	~2 hours at +23 °C and 50 % r.h. This time is approximate and will be affected by changing environmental conditions and application details (e.g. time for product to be ready for use will be extended at lower temperatures, and reduced in warmer temperatures).

VALUE BASE

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.

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

NOTES ON INSTALLATION

- In warm conditions (i.e. +25 °C to +30 °C) use cold water to keep an acceptable working time.
- In cold conditions (i.e. +5 °C to +8 °C) use warm water to accelerate the setting time of the mortar.
- Only mix the amount of product that can be placed within 2 to 3 minutes.
- Apply only to sound, prepared substrate.
- Do not add water over the recommended dosage levels.
- Do not add water to the mortar after the setting has started.
- Do not add additional water during the surface finishing as this will cause discolouration and / or cracking.

- Avoid application in direct sun and / or strong wind.
- Protect freshly applied material from freezing.

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be sound and free from dust, dirt, loose material, surface contamination such as oil or grease, cement laitance, etc. Delaminated, weak, damaged and deteriorated concrete shall be removed by suitable means.

Surfaces shall be prepared using mechanical cleaning techniques.

MIXING

Sika MonoTop®-110 QuickFix can be mixed with a low speed hand drill mixer (<500 rpm). In small quantities, 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 until a uniform consistency is achieved. Add additional water during mixing if necessary (up to the maximum specified amount) and adjust to the required consistency.

Make sure to only mix the amount of product that can be placed within 2 to 3 minutes.

APPLICATION

Thoroughly pre-wet the prepared substrate until saturated surface dry (SSD). Before the application of the mortar, remove the excess of water with a clean sponge. The surface shall appear dark matt without glistening and surface pores and pits shall not contain any water.

Apply the Sika MonoTop®-110 QuickFix with a trowel or spatula. It has to be placed fast in the void to fill, exerting a good pressure between the substrate and the element to fix in order to ensure a good adhesion on both substrates. If used for bonding, hold / support the object to fix in place until the mortar starts setting and is able to withstand the load (in most instances, this will be around 2 to 3 minutes).

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.). Do not use curing compounds if the mortar is to receive further materials (e.g. paint) as these may impair adhesion.

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.

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Sika MonoTop®-110 QuickFix
July 2024, Version 01.01
020201010030000102

SikaMonoTop-110QuickFix-en-GB-(07-2024)-1-1.pdf