

PRODUCT DATA SHEET

Sika MonoTop®-723 DE

Levelling filler for the Sika MonoTop®-PCC system

DESCRIPTION

Sika MonoTop®-723 DE is a polymer-modified, 1-component cement mortar dry mix (PCC). By adding water, an easily workable levelling filler can be produced, which can also be adjusted to a slurry finish.

Sika MonoTop®-723 DE is low in chromate according to TRGS 613.

USES

Component of the Sika MonoTop®-600 concrete repair system according to ZTV-ING, Part 3, Section 4. For leveling or levelling concrete surfaces and for closing blowholes and pores. In building construction, concrete surfaces can be levelled and smoothed using Sika MonoTop®-723 DE Levelling Filler in a thin plastering process. Formwork distortions will be largely compensated. It can also be used to protect exposed concrete surfaces that are susceptible to de-icing exposed concrete surfaces in combination with suitable surface protection coatings.

PRODUCT INFORMATION

Packaging	25 kg bag
Shelf life	12 months from date of production
Storage conditions	In undamaged, unopened, original sealed packaging in cool and dry conditions.
Maximum grain size	0.4 mm
Density	Fresh mortar density ~1.98 kg/l

TECHNICAL INFORMATION

Compressive strength	46.7 N/mm ² (28 days, storage B)
Tensile strength in flexure	11.8 N/mm ² (28 days, storage B)

CHARACTERISTICS / ADVANTAGES

- Simple and easy processing application
- Only water addition required
- Excellent adhesion
- Can also be processed by using the slurry method
- Fine filler for OS systems

APPROVALS / CERTIFICATES

- Sika MonoTop®-PCC system and Sika MonoTop®-723 system are listed in the compilation of certified substances and substance systems according to ZTV-ING, Part 3, Section 4.
- Sika MonoTop®-723 DE meets the requirements of class R3 according to EN 1504-3.

APPLICATION INFORMATION

Mixing ratio	max. water addition	Mixing ratio (parts by weight)
	per bag (25 kg)	Sika MonoTop®-723 DE : water
	4 kg	100 : 16
Consumption	Levelling:	depending on the roughness of the surface ~2.0 kg/m ² dry mortar
	Coating:	per mm layer thickness ~2.0 kg/m ² dry mortar
Ambient air temperature	Minimum +5 °C Maximum +35 °C	
Substrate temperature	Minimum +5 °C Maximum +35 °C	
Waiting time to overcoating		+5 °C/ +20 °C/ +35 °C
	Mortar / leveling filler (pore closure)	24 hours
	Levelling filler / levelling filler	24 hours
	Levelling filler / coating	3 days

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

CE MARKING

See Declaration of Performance

HAZARD INFORMATION

GISCODE: ZP 1

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. Further notes and information data sheets on product safety and disposal can be found on the Internet at www.sika.de.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete surface must be solid, free from loose and friable particles, dust and dirt. Paint residues and release agents - especially those containing oil and wax - as well as cement laitance, must be removed.

The concrete surface has to be prepared according ZTV-ING, Part 3, Chapter 4 (by blast cleaning with solid blasting agents or high pressure water jetting up to 400 bar) until pull-off-strength of ≥ 1.5 N/mm².

The concrete surface must be matt damp during processing. Therefore, pre-wetting is required prior to application of Sika MonoTop®-723 DE. Thoroughly pre-wet heavily dried-out concrete on the previous day. The ZTV-ING, Part 3, Section 4 applies.

MIXING

Mortars must be mixed with water in the specified mixing ratio. Do not add any admixtures or other aggregates.

First add about 90 % of the maximum water consumption into a suitable clean mixing container. While stirring continuously dry mortar is added into the water. The remaining amount of 10 % may be required for consistency adjustment. Stir until a lump-free and homogeneous consistency has been achieved. Low speed mortar mixer or compulsory mixer are required.

Dry, non-wetted powder residues must not remain. Sika MonoTop®-723 DE levelling filler may not be mixed with admixtures or additives.

After mixing, a maturing time of 1-2 minutes must be observed before further processing. Then the mortar is mixed again briefly.

APPLICATION

Sika MonoTop®-723 DE can be applied either manually using traditional techniques or mechanically using wet spray equipment. Thoroughly pre-wet the prepared substrate a recommended 2 hours before application. Keep the surface wet and do not allow to dry. Before application remove excess water e.g. with a clean sponge. The surface shall appear a dark matt appearance without glistening and surface pores and pits shall not contain water.

When manually applying the mortar first make a scratch coat by firmly scrapping the repair mortar over the substrate surface to form a thin layer and fill any pores or pits in the surface. The surface can be finished according to the requirements using a float or with a relevant wooden or plastic float or damp sponge.

PRODUCT DATA SHEET

Sika MonoTop®-723 DE
March 2022, Version 02.01
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CURING TREATMENT

Sika MonoTop®-723 DE leveling filler hardens more slowly than normal cement mortar. Rapid drying, e.g. due to sun or strong air movement, must be prevented, therefore the rules for curing mortars must be followed.

Protect freshly prepared surfaces by covering them with mats or plastic sheets. Better: Spray fully with water several times a day. Curing must be done for at least 3-4 days, to achieve optimum surface strength. Sika MonoTop®-723 DE leveling filler must be over-coated with coating materials suitable for alkaline substrates: Sikagard®-680 S Betoncolor, Sikagard®-675 W ElastoColor, Sikagard®-555 W Elastic, Sikagard® Wallcoat T or Sikagard®-260 WPU. According to DIN EN 1504-3, Sika MonoTop®-723 DE must not be used without carbonation protection.

When building up a surface protection system according to DIN EN 1504-2, the curing times must be observed according to the test certificate.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured 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 the 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 Deutschland GmbH

Building Finishing
Kornwestheimer Straße 103-107
D - 70439 Stuttgart
Telefon: +49 711 8009-0
www.sika.de



PRODUCT DATA SHEET

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March 2022, Version 02.01
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