Sika[®] MonoTop[®]-723 N

R3 Cementitious Pore Sealer and Levelling Mortar

Product Description	Sika [®] MonoTop [®] -723 N is a polymer modified surfacing/finishing mortar, ready to mix, meeting the requirement of Class-R3 of EN 1504-3.
Uses	 Suitable for restoration work (Principle 3, method 3.1 and 3.3 of EN 1504-9)
	 Suitable for preserving or restoring passivity (principle 7, method 7.1 and 7.2 of EN 1504-9)
	Use as a concrete pore sealer / levelling mortar
	 Repairing of minor defects (pores and honeycombed concrete)
	Thin layer render
Characteristics / Advantages	Excellent workability and finishing
	Suitable for hand or wet spray application
	 Can be applied up to 5mm thick per application layer
	Class R3 of EN 1504-3
	Restoration work
	High sulphate resistant
	Low cracking sensitivity
	Low chloride permeability
	 Compatible with Sikagard[®] overcoat systems
Tests	
Approvals / Standards	LPM, Laboratory for Preparation and methodology (Beinwil am See, Switzerland) – Initial type testing report in accordance with EN 1503-3, Nr A-33,877-1E dated 9^{th}

April 2009.

Product Data

Form	
Appearance / Colour	Grey powder
Packaging	25 kg bag
Storage Conditions / Shelf-Life	12 months from date of production if stored properly in undamaged original sealed packaging, in dry cooled conditions.



Technical Data		
Chemical Base	Portland cement, selected aggregates, a	additives and polymer modified
Density	Fresh mortar density: ~ 2.00 kg/l	
Grading	D _{max} : 0.40 mm	
Layer Thickness	1.0 mm min. / 5.0 mm max. per layer	
Thermal Expansion Coefficient	10.5 x 10 ⁻⁶ m/m.°C	(EN 1770)
Carbon Dioxide Diffusion Resistance	~ 2700 µCO ₂	
Water Vapour Diffusion Resistance	~ 120 μH₂O	
Mechanical / Physical Properties	20°C in lab conditions	
Compressive Strength	~ 40 N/mm ² at 28 days	(EN 196-1)
Flexural Strength	~ 8 - 9 N/mm² at 28 days	(EN 196-1)
Adhesive Bond	~ 2.0 N/mm ²	(EN 1542)
System Information		
System Structures	Sika [®] MonoTop [®] -723 N is part of the Sik relevant part of European Standard EN	xa [®] Repair System complying with the 1504 and comprising of:
	Bonding primer and reinforcement corro	osion protection
	- Sika [®] MonoTop [®] -910 N:	Normal use
	Repair mortars:	
	- Sika [®] MonoTop [®] -352 N:	R3 light weight repair mortar
	- Sika [®] MonoTop [®] -412 N:	R4 repair mortar
	- Sika MonoTop [®] -438 R [*]	R3 Pore sealer and levelling mortar
Application Details		
Consumption	This depends on the substrate roughnes As a guide, \sim 1.7 kg of powder per m ² p	ss and thickness of layer applied. er mm thick.
	1 bag yields approximately 14.7 litres of	mortar
Substrate Quality	Concrete: The concrete shall be free from dust, loc materials which reduce bond or prevent	ose material, surface contamination and suction or wetting by repair materials
	Reference should also be made to EN1	504-10 for specific requirements
Substrate Preparation	<i>Concrete:</i> Delaminated, weak, damaged and deteriorated concrete and where necessary sound concrete shall be removed by suitable means.	
	The surface shall be thoroughly pre-wet application of the concrete repair mortar appearance without glistening, and surfated appearance without glistening.	ted and not be allowed to dry before . The surface shall achieve a dark matt ace pores and pits shall not contain water.
Application Conditions / Limitations		
Substrate Temperature	+5°C min.; +35°C max.	
Ambient Temperature	+5°C min.; +35°C max.	

Application Instructions	
Mixing Ratio	~ 4.5 litres of water for 25 kg powder
Mixing	Sika [®] MonoTop [®] -723 N can be mixed with a low speed (< 500 rpm) electric drill mixer. In small quantity, Sika [®] MonoTop [®] -723 N can also be mixed by hand.
	Pour the water in the correct proportion into a suitable mixing container. While stirring slowly, add the powder to the water. Mix thoroughly for at least 3 minutes to the required consistency.
Application Method / Tools	Sika [®] MonoTop [®] -723 N can be applied either manually using traditional techniques or mechanically using wet spray equipment.
	Apply by trowel and rub down with wooden/plastic float or damp sponge.
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.
Pot life	~ 40 minutes at +23°C
Waiting Time / Overcoating	As guidance, Sika [®] MonoTop [®] -723 N can receive an overcoat 4 days after application (3 days curing + 1 day drying) with Sikagard [®] range of protective coatings. For other emulsion paints, refer to the relevant manufacturer's data sheet/ documentation.
Notes on Application / Limitations	 Refer to the Method Statement for Concrete Repair using Sika[®] MonoTop[®] system for more information regarding substrate preparation or refer to the recommendations provided in EN 1504-10
	 Avoid application in direct sun and/or strong wind.
	 Do not add water over recommended dosage
	 Apply only to sound prepared substrate, min 25 N/mm² compressive strength
	 Do not add additional water during the surface finishing as this will cause discoloration and cracking
	 Protect freshly applied material from freezing

Curing Details

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.
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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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.



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