

BUILDING TRUST

BUILDING PRODUCT INFORMATION SHEET Sika MonoTop®-723 N

R3 Pore Sealer and Levelling Mortar

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

- Thin layer render
- Use as a concrete pore sealer / levelling mortar
- Repairing of minor defects (pores and honeycombed concrete)
- 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)

FEATURES

- Easy to apply and excellent finishing
- Suitable for hand or wet spray application

PRODUCT INFORMATION

- Can be applied up to 5 mm thick per application layer
- Class R3 of EN 1504-3
- Restoration work
- Sulphate resistant
- Low cracking sensitivity
- Very good resistance to water and chloride penetration
- Compatible with Sikagard[®] overcoat systems
- A1 fire rating

LIMITATIONS OF USE

The need for concrete repair, as defined in Standard NZS3109 -Concrete Construction, refers primarily to concrete defects arising from construction, placing and finishing actions. Repair options for concrete damage outside the scope of the NZ Building Code and arising from other causes, (e.g. fire, explosion, earthquake, chemical attack, etc) requires specialist engineering expertise to undertake specific project investigation and specification.

Product identifier	Sika MonoTop®-723 N	
Place of manufacture	Aotearoa New Zealand	
Composition	Portland cement, selected aggregates, additives and polymer modified	
Packaging	20 kg bag	
Shelf life	12 months	
Storage conditions	Store properly in undamaged o	original sealed packaging, in dry cool conditions.
Appearance and colour	Grey powder	
Maximum grain size	d _{max} : 0.4 mm	
Density	Fresh density of mortar ~2.0 k	g/l
Soluble chloride ion content	≤ 0.05 %	(EN 1015-17)
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TECHNICAL INFORMATION

Class R3

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	~40 MPa after 28 days	(EN 12190)
Modulus of elasticity in com- pression	≥ 15 GPa	(EN 13412)
Flexural strength	~8 MPa	(EN 12190)
Tensile adhesion strength	≥ 1.5 MPa	(EN 1542)
Coefficient of thermal expan- sion	~10.5 x 10 ⁻⁶ 1/K	(EN 1770)
Thermal compatibility	≥ 1.5 MPa (Part 1: Freeze- thaw)	(EN 13687-1)
Capillary absorption	$\leq 0.5 \text{ kg/(m}^2 \text{ h}^{0.5})$	(EN 13057)
Diffusion resistance to water va- pour	~120 µH ₂ 0	
Permeability to carbon dioxide	~2 700 µCO ₂	
Freeze thaw de-icing salt resist- ance	≥ 1.5 MPa	(EN 13687-1)
Carbonation resistance	$d_k \leq \text{control concrete (MC(0.45))}$	(EN 13295)
Reaction to fire	Euro Class A1	(EN 1504-3)
SYSTEM INFORMATION		

System structure Sika MonoTop®-723 N is part of the range of Sika mortars complying with the relevant part of European Standard EN 1504 and comprising of: Bonding Primer / Reinforcement Corrosion Protection Bonding Primer / Reinforcement Corrosion Protection Sika MonoTop°-910 N Normal Use SikaTop° Armatec° 110 EpoCem° Demanding requirements Repair Mortar Sika MonoTop°-412, 352 Levelling Mortar Concrete repair mortars Sika MonoTop®-723 N Normal use

APPLICATION INFORMATION

Mixing ratio	~ 3.6 litres of water for 20 kg powder	
Consumption	This depends on the substrate roughness and thickness of layer applied. As a guide, ~ 1.7 kg of powder per m² per mm thick	
Yield	20 kg yields approximately 11.7 litres of mortar when mixed with 3.6 litres water	
Layer thickness	min. 1 mm / max. 5 mm	
Ambient air temperature	+5°C minimum; +35°C maximum	
Substrate temperature	+5°C minimum; +35°C maximum	
Pot Life	~40 minutes at 20°C	
Waiting time to overcoating	As a guide, depending on weather conditions 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.	

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information

Address

Sika (NZ) Limited



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	85-91 Patiki Road	
	Avondale, Auckland 1026	
	New Zealand	
Phone number	0800 745 269	
Website	https://nzl.sika.com/	
Email address	info@nz.sika.com	
NZBN	9429000018791	

BUILDING CODE INFORMATION

Building Code clauses	Note: This product is a concrete repair / protection product and on its own is not within the scope of the NZ Building Code. However when used for the repair of defects in concrete (manufactured to NZS3104) arising from the placement and construction process, as defined in NZS 3109: 1997 clauses 7.7.5 and 7.7.6, it will contribute to meeting the requirements of the following NZBC clauses
	B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q) B1.3.4
	B2 Durability: Performance clause B2.3.1-(a) not less than 50 years
	F2 Hazardous Building Materials: Performance clause F2.3.1
Building Code compliance state- ments	Performance B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q): B1.3.4 Sika MonoTop, Sikacrete, Sikagard and Sikadur concrete repair and protection products comply with their relevant parts within EN1504. (refer to "Refurbishment- Improved Sika Monotop Systems - An Overview For Designers and Specifiers" available at nz.sika.com) When they are used to repair and restore the integrity of damaged or defective concrete, as specified within the scope of NZS3604:2011, they contribute to the concrete meeting the preceding B1 Structure performance clauses
	Performance B2.3.1 (a) 50 years: This product has been evaluated in accordance with B2/VM1. It meets this durability requirement and will remain serviceable for 50 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2007.
	Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- Refer to the Method Statement for Concrete Repair using Sika MonoTop[®] system for more information or refer to 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 discolouration and cracking
- Protect freshly applied material from freezing

ECOLOGY, HEALTH AND SAFETY

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.

APPLICATION INSTRUCTIONS

DESIGN REQUIREMENTS

This product is part of a system that includes primers and other associated products. For full design information refer to the relevant Sika literature avaialbale at nzl.sika.com. For further information or support phone 0800SIKANZ

SUBSTRATE QUALITY

The concrete shall be thoroughly clean, free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by repair materials. Reference shall be made to EN1504-10 for specific requirements.



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MIXING

Sika MonoTop®-723 N can be mixed with a low speed (<500 rpm) hand drill mixer or for machine application, using a force action mixer 2 to 3 bags or more at once depending the type and size of mixer. Pour the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes to the required consistency.

APPLICATION

Sika MonoTop®-723 N 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.

CURING TREATMENT

Protect the fresh mortar immediately from premature drying using an appropriate curing method e.g. moist geotextile membrane, polythene sheet etc.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

MAINTENANCE REQUIREMENTS

The maintenance requirements for this Sika product are the same as for the host / surrounding substrate

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

Sika (NZ) Limited

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