

MATERIĀLA APRAKSTS

Sika MonoTop®-2002 Universal

Concrete repair mortar class R4

RAKSTUROJUMS

Sika MonoTop®-2002 Universal is a 1-component, fiber reinforced, containing silica fume, structural repair mortar meeting the requirements of class R4 ac. to EN 1504-3.

LIETOŠANAS VEIDI

- Thick layer repair mortar for vertical and overhead applications
- Levelling of concrete and mortars surfaces before the application of coatings
- Restoration of concrete elements
- Filling joints between precast elements Increasing cover with additional mortar and replacing contaminated or carbonated concrete
- Suitable for restoration work (Principle 3, method 3.1 and 3.3 of EN 1504-9). Repair of spalling and damaged concrete in buildings, bridges, infrastructure and superstructure works
- Suitable for structural strengthening (principle 4, method 4.4 of EN 1504-9). Increasing the bearing capacity of the concrete structure by adding mortar
- Suitable for preserving or restoring passivity (principle 7, method 7.1 and 7.2 of EN 1504-9). Increasing cover with additional mortar and replacing contaminated or carbonated concrete

PRODUKTA INFORMĀCIJA

Ķīmiskā bāze	Cement, silica fume, fibers, selected aggregates and additives
Iepakojums	25 kg bag
Uzglabāšanas ilgums	12 months
Uzglabāšanas apstākļi	Store properly in undamaged original sealed packaging, in dry cool conditions
Izskats / krāsa	Grey powder
Maksimālais graudiņu izmērs	2 mm

ĪPAŠĪBAS / PRIEKŠROCĪBAS

- Class R4 acc. to EN 1504-3
- Superior workability and finishing
- Suitable for hand and machine application
- Good compressive and flexural strengths
- Low shrinkage
- Can be applied locally up to 50 mm thick per application layer
- For hand and machine application
- Class A1 Reaction to fire

PĀRBAUDES / STANDARTI

- Meet the requirements of EN 1504-3:2005, Principle 3, 4 and 7
- Tested acc. EN 1504-3:2005, issued Declaration of Performance, certified by Notified Body No.1020, certificate 1020-CPR-020041821 and provided with CE-mark.

Šķīstošo hlora jonu saturs	< 0.05 %			EN 1015-17
Spiedes stiprība	<u>1 day</u> ~ 15 MPa	<u>7 days</u> ~ 40 MPa	<u>28 days</u> ~ 50 MPa	EN 12190
Spiedes elastības modulis	≥ 20 GPa			EN 13412
Stiepes stiprība liecē	<u>1 day</u> ~ 4 MPa	<u>7 days</u> ~ 6 MPa	<u>28 days</u> ~ 8 MPa	EN 12190
Stiepes stiprība	> 2.0 MPa			EN 1542
Termiskā savietojamība	≥ 2.0 MPa (Part 1: Freeze-thaw)			EN 13687-1
Kapilārā uzsūkšanās	≤ 0.5 kg/(m ² .h ^{0.5})			EN 13057
Izturība pret karbonizēšanos	dk ≤ controlled concrete MC(0.45)			EN 13295
Reakcija uz uguns iedarbību	Class A1			EN 13501-1

SISTĒMAS INFORMĀCIJA

Sistēmas uzbūve	Sika MonoTop®-2002 Universal is part of the range of Sika mortars complying with the relevant part of European Standard EN 1504 and comprising of: Sika MonoTop®-2001 Bond&Protect - Bonding Primer / Reinforcement Sika MonoTop®-2002 Universal - Repair Mortar Sika MonoTop®-2003 Finish - Levelling Mortar
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INFORMĀCIJA PAR IESTRĀDI

Svaigas javas blīvums	~ 2 100 kg/m ³
Patēriņš	~1.9 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.
Slāņa biezums	Maximum 20 mm per application layer by hand (locally up to 50 mm) Maximum 40 mm per application layer by machine
Apkārtējā gaisa temperatūra	+5 °C min./+30 °C max.
Samaisīšanas attiecība	3.5 – 4.0 l/25 kg
Pamatnes virsmas temperatūra	+5 °C min./+30 °C max.
Izstrādes laiks	~ 40 minutes at +20 °C

PRODUKTA DATU PAMATOJUMS

Visi šajā Materiāla aprakstā minētie tehniskie dati iegūti no mērījumiem laboratorijā. Mūsu varā nav novērst to, ka faktiskie mērījumu dati var atšķirties no laboratorijas datiem.

PAPILDU INFORMĀCIJA

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.

IEROBEŽOJUMI

- Avoid application in direct sun and/or strong wind
- Do not add water over recommended dosage
- Apply only to sound, prepared substrate
- Do not add additional water during the surface finishing as this will cause discolouration and cracking
- Protect freshly applied material from freezing

EKOLOĢIJA, VESELĪBAS AIZSARDZĪBA UN DROŠĪBA

Lai iegūtu informāciju un padomus par drošu apieša-

nos ar ķīmiskajiem produktiem, to uzglabāšanu un utilizēšanu, lietotājiem jāizmanto produkta jaunākā Drošības datu lapas versija, kas satur fizikālos, ekoloģiskos, toksikoloģiskos un citus ar drošību saistītos datus.

NORĀDĪJUMI PAR IESTRĀDI

VIRSMAS KVALITĀTE / SAGATAVOŠANA

Concrete:

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. De-laminated, weak, damaged and deteriorated concrete and where necessary sound concrete shall be removed by suitable means.

Steel Reinforcement:

Rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion shall be removed. Surfaces shall be prepared using abrasive blast cleaning techniques or high pressure water-blasting to Sa 2 (ISO 8501-1) Reference shall be made to EN1504-10 for specific requirements.

SAMAISĪŠANA

Sika MonoTop®-2002 Universal 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 adding additional water if necessary, within the mixing time to the maximum specified amount and adjust to the required consistency.

IESTRĀDE

Bonding Primer:

On a well prepared and roughened substrate a bonding primer is generally not required for this product. When a bonding primer is required, refer to the System Information above for compatible Sika products and refer to the relevant Product Data Sheet for instructions. All small amount of Sika MonoTop®-2002 Universal can also be mixed slightly wetter than normal and used as a scratch coat to promote adhesion of the repair mortar to the substrate. Any bonding primer shall be applied on a pre-wet substrate and subsequent application of the repair mortar shall be applied wet on wet with the bonding primer.

Reinforcement Corrosion Protection:

Where a reinforcement coating is required the application of a repair mortar shall be applied wet on dry with the reinforcement corrosion protection. Refer to the System Information above for compatible Sika products and refer to the relevant Product Data Sheet for more detailed information about the reinforcement corrosion product. Sika MonoTop®-2002 Universal 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 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. Ensure the whole surface to be repaired is covered by the scratch coat. Build up layers from bottom to top by pressing mortar well into the repair area. The surface can be finished according to the requirements using a float while wet or with a relevant rough-cast tool as soon as the mortar has started to stiffen.

APSTRĀDE CIETĒŠANAS LAIKĀ

Protect the fresh mortar immediately from premature drying using an appropriate curing method e.g. curing compound, moist geotextile membrane, polyethylene sheet etc. Curing compounds must not be used when they could adversely affect subsequently applied products and systems

DARBARĪKU TĪRĪŠANA

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

VIETĒJIE IEROBEŽOJUMI

Ievērojiet, ka specifisku vietējo noteikumu rezultātā šī materiāla veiktspēja dažādās valstīs var būt atšķirīga. Precīzam pielietojuma jomu aprakstam lūdzam skatīt vietējo Materiāla aprakstu.

JURIDISKĀS PIEZĪMES

Informācija un, it īpaši, ieteikumi, kas attiecas uz Sika uzņēmumu materiālu pielietojumu un galīgo patēriņu, ir patiesa un balstīta uz Sika uzņēmumu pašreizējām zināšanām un pieredzi par produktiem, pie nosacījuma, ka uzglabāšana, transportēšana un iestrāde norit normālos apstākļos un saskaņā ar Sika rekomendācijām. Praksē novērots, ka atšķirības materiālos, pamatnēs un aktuālajos būvlaukuma apstākļos ir tādas, ka nevar sniegt nekādu garantiju par materiāla piemērotību konkrētajam mērķim, un nevar rasties nekādas saistības no jebkādam juridiskajām attiecībām, izmantojot šo informāciju, vai jebkādu rakstisku rekomendāciju, vai jebkādu citu sniegto padomu. Produkta lietotājam jāpārbauda produkta piemērotība paredzētajam

Materiāla apraksts

Sika MonoTop®-2002 Universal

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pielietojumam un mērķim. Sika patur sev tiesības mainīt savu produktu īpašības. Ir jāievēro trešo pušu īpašumtiesības. Visi pasūtījumi tiek pieņemti saskaņā ar mūsu pašreizējiem pārdošanas un piegādes noteikumiem. Patērētājiem ir vienmēr jāatsaucas uz jaunākajām attiecīgā produkta vietējām Materiāla aprakstu lapām, kuru kopijas tiks piegādātas pēc pieprasījuma.

Sika Baltic SIA

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