

Sika® MonoTop® -620

Cementitious pore sealer and levelling mortar

Product Description

Sika® MonoTop®-620 is a cementitious, polymer modified, one component pore sealer and levelling mortar-containing silica fume.

Uses

- Pore sealer/finishing layer on concrete, mortar and Sika® MonoTop® mortar substrates
 - As a thin layer rendering on horizontal and vertical areas in building and civil engineering construction, internal finishing etc
 - As a repair mortar to fill honeycombing, pores, etc. on any kind of concrete construction
 - To repair small defects on edges and joint sides, to form and finish joints and coverings
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Characteristics / Advantages

- Only requires mixing with water
 - Easy, user friendly application
 - Adjustable consistency
 - Good freeze/thaw resistance
 - Excellent adhesion to mortars and concrete
 - Sprayable by the wet spray method
 - Good resistance to water and chloride penetration
 - Good mechanical strengths
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Tests

Approval / Standards



Product Data

Form

Appearance / Colour	Powder	Grey
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Packaging	25kg bags.
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Storage

Storage Conditions / Shelf-Life	12 Months in original, unopened packaging. Store in a dry area between +5°C and +30°C. Protect from direct sunlight and moisture.
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Technical Data

Chemical Base	Cement and Crystalline free silica
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Density	~ 2kg/litre fresh mortar
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Layer Thickness	1.5 – 5.0mm
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Mechanical Properties

Compressive Strength	(28 days, 23°C/50% RH)	30 - 35 N/mm ²
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System Information

System Structure	Levelling mortar: Sika® MonoTop®-620
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Application Details

Consumption / Dosage	Volume yield: ± 12,5 litres per 25kg bag
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Substrate Quality	<p>The concrete substrate must be sound and of sufficient compressive strength (min. 20 N/mm² (MPa) with a minimum pull off strength of 1.5 N/mm² (MPa).</p> <p>The surface must be dry and free of all contaminants such as oils, grease, coatings and surface treatments, etc.</p> <p>The substrate must be prepared mechanically to remove cement laitance and achieve a profile open textured surface.</p> <p>Weak concrete should be removed and surface defects such as honeycombed areas, blowholes and voids must be fully exposed.</p> <p>Repairs to substrate, filling of blowholes/voids and surface levelling should be carried out using the appropriate product from the Sikafloor®, Sikadur® and Sikagard® range of materials.</p>
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Substrate Preparation / Priming	<p>The concrete or mortar must be sound, clean, properly cured and free from oils, grease or surface contaminants. All loose materials and surface laitance must be removed by high pressure water jet blasting or similar mechanical means. Repair defective areas with Sika® MonoTop® mortars as necessary (refer to separate Product data sheets).</p> <p>The prepared substrate should be thoroughly soaked with clean water until uniformly saturated, leaving no standing water.</p>
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Application Conditions / Limitations

Substrate Temperature	Min. 5°C max.30°C
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Ambient Temperature	Min. 5°C max.35°C
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Substrate Humidity	< 10%
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Application Instructions

Mixing (Ratio/Dosage)	<p>3.8 – 4.5 litres water per 25kg powder (depending on application).</p> <p>Pour clean water in the correct proportion into a clean mixing vessel. Add the Sika® MonoTop® -620 slowly while mixing continuously. To avoid entraining too much air use a slow speed mixer (max. 500 rpm) for minimum of 3 minutes. By gradually adding the powder in portions, the desired application consistency can be obtained.</p>
Application Method / Tools	<p>Sika® MonoTop® -620 is normally applied by trowel or spatula to the pre-wetted substrate.</p> <p>As soon as the mortar has started to set, it can be rubbed down with a wooden or plastic float or sponge finished. Extra water should not be added to improve workability once setting has started.</p> <p>Sika® MonoTop® -620 may be over coated with Sikagard® 540W or Sikagard® 550W Elastic ZA.</p>
Cleaning of Tools	<p>Application and mixing tools should be cleaned with water immediately after use. Hardened material must be removed mechanically.</p>
Notes on Application / Limits	<p>Avoid application in and protect freshly applied material from direct sunlight and/or strong winds.</p> <p>Do not add water over the recommended dosage.</p> <p>Apply only to sound, prepared substrates.</p> <p>Do not add additional water during the surface finishing as this will cause discoloration and cracking.</p> <p>Protect the freshly applied material from rain or freezing.</p>
Curing Details	
Curing Treatment	<p>It is essential to cure the levelling mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. I.e. use polythene sheeting to protect it or another suitable approved curing method.</p>
Value Base	<p>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.</p>
Local Restrictions	<p>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.</p>
Health and Safety Information	<p>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.</p>
Legal Notes	<p>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.</p>



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