

PRODUCT DATA SHEET

Sika MonoTop[®]-620 IQ

R3 CLASS REPAIR MORTAR/ PORE SEALER/ FINISHING COAT

DESCRIPTION

Sika MonoTop[®]-620 IQ is a cementitious, silica fume containing, polymer modified one-component, class R3 according to EN 1504-3, pore sealer and finishing coat.

USES

Sika MonoTop[®]-620 IQ can be applied as a pore sealer / finishing coat on concrete, mortar, SikaTop[®] and Sika Monotop[®] applied substrates.

- As a thin layer rendering on horizontal and vertical areas in building-and civil engineering construction, internal finishing etc.
- As a levelling mortar on uneven substrates and profiled concrete surfaces.
- As a repair mortar to fill honey combs, pores etc. on any kind of concrete construction.
- To repair small defects on edges and joint sides, to form and finish joints and coverings.

PRODUCT INFORMATION

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| Composition | Polymer containing cementitious powder with different additives |
| Packaging | 25 kg bags |
| Shelf life | 12 months |
| Storage conditions | Sika MonoTop [®] -620 IQ shall be stored in dry conditions, where it is protected from direct sunlight and moisture and unopened original packing. |
| Appearance and colour | Grey powder |
| Maximum grain size | Dmax: 0,85 mm |
| Density | ~2100 Kg/m ³ |
| Soluble chloride ion content | ~ 0.014 % (EN 1015-17) |

FEATURES

- One component, only requires mixing with water.
- Easy, user-friendly application.
- Adjustable consistency.
- Good mechanical strengths.
- Good frost resistance.
- Suitable for wet spray method.
- A1 class fire reaction.
- Non corrosive, Non-toxic.
- R3 class according to EN 1504-3.

CERTIFICATES AND TEST REPORTS

Conforms to the requirements of EN1504-3 R3 Classification.

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| Compressive strength | 35-45 N/mm ² (28 days, 23°C and %50 relative humidity) | (EN 12190) |
| Flexural-strength | ~ 6.5 N/mm ² (28 days, 23°C and %50 relative humidity) | (EN 196-1) |
| Tensile adhesion strength | ~ 3.5 N/mm ² (28 days, 23°C and %50 relative humidity) | (EN 1542) |
| Capillary absorption | ~ 0.3 kg.m ⁻² .h ^{-0.5} | (EN 13057) |
| Reaction to fire | A1 Class | (EN 13501-1) |

SYSTEM INFORMATION

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| System structure | Sika MonoTop®-620 IQ is a part of Sika Monotop®-600 ready to use repair mortar series. | |
| | Bonding bridge and anti-corrosion primer | |
| | Sika Monotop®- 610 | Bonding bridge and anti-corrosion primer |
| | Repair Mortar | |
| | Sika Monotop®- 612 IQ | R4 Class, manually and mechanically applied repair mortar |
| | Finishing Mortar | |
| | Sika Monotop®- 620 IQ | R3 Class, repair and finishing mortar |

APPLICATION INFORMATION

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| Consumption | For one coat of 1 mm. 1,5 – 2,0 kg/m ² powder material is required. The amount of material used depends on the concrete surface and the application method. |
| Layer thickness | Min: 1,5 mm Max: 5,0 mm For thickness greater than 5 mm Sika MonoTop®-620 IQ must be applied in several layers. |
| Ambient air temperature | +5 °C min.; +40 °C max. |
| Mixing ratio | For 25 kg bag 4,25–4.75 liter water must be used. Water/Powder ratio must be 0,17–0,19 by weight. |
| Substrate temperature | +5 °C min.; +40 °C max. |

BASIS OF PRODUCT DATA

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.

IMPORTANT CONSIDERATIONS

1. Please do not use more water than advised.
2. Do not use the product below the allowed min. temperature so that the material completes the setting. The setting is slowed down under low temperatures and speeded up under high temperatures. Workability period also varies inversely depending on the temperature.
3. Protect the newly applied product from frost.
4. Avoid applying material in direct sunlight and very windy environment.

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

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete must be premoistured, structurally sound, clean and free from dust, dirt, oil, grease, loose or friable particles other contaminants (such as paint etc.). In hot weather, the surface must be pre-wetted to saturate the water.

MIXING

Pour water in correct proportion into a suitable mixing vessel. Add powder, whilst stirring slowly. Mix mechanically for at least 3 minutes, using low speed electric stirrer (max. 500 RPM) in order to maintain a homogeneous mortar.

APPLICATION

Depending on application Sika MonoTop®-620 IQ can be applied by trowel or spatula to the pre-wetted (saturated surface dry) substrate. As soon as mortar has started to set it may be rubbed down with a plastic trowel or a polyurethane sponge.

Over coating: Sika MonoTop®-620 IQ sealing mortar may be overcoated with (Sikagard 680 S, Sikagard-550 W Elastic, SikaTop® Seal-107) , and other suitable Sika products. Refer to relevant technical data sheet for more information.

CURING TREATMENT

The mortar must be cured with suitable curing materials to prevent premature drying out of the mortar or standard curing methods are recommended. Keep it moist if exposed to strong sunshine or wind.

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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PRODUCT DATA SHEET

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