

## PRODUCT DATA SHEET

# Sika MonoTop®-620 GH

R3 pore sealer and levelling mortar

## DESCRIPTION

Sika MonoTop®-620 GH is a polymer modified surfacing/finishing structural repair mortar, ready to mix, meeting the requirements of class R3 of the EN 1504-3.

## USES

Sika MonoTop®-620 GH can be applied with or without a reinforcement matt, over concrete or mortar surfaces or over SikaTop® or Sika Monotop® mortars.

It is suitable for the following uses:

- Use as a concrete/ mortar pore sealer or levelling mortar
- Thin layer render over vertical or horizontal structural elements
- Repairing of minor defects (pores and honeycombed concrete)
- Restoration of edges and joints
- Suitable for restoration work (Principle 3, method 3.1 and 3.3 of EN 1504-9)

## FEATURES

- Easy to apply
- Class R3 of EN 1504-3
- Adjustable consistency to improve workability
- Does not require a bonding primer even when manually applied
- Suitable for hand and machine application
- Low shrinkage behavior
- Non-corrosive
- A1 fire rating for the grey type

## PRODUCT INFORMATION

|                              |                                                                                |
|------------------------------|--------------------------------------------------------------------------------|
| Packaging                    | 25 kg bag                                                                      |
| Appearance and colour        | Grey powder                                                                    |
| Shelf life                   | 12 months                                                                      |
| Storage conditions           | Store properly in undamaged original sealed packaging, in dry cool conditions. |
| Density                      | Fresh mortar density ~2.1 kg/l (at 20 °C)                                      |
| Maximum grain size           | Dmax: 0.6 mm                                                                   |
| Soluble chloride ion content | < 0.01 % (EN 1015-17)                                                          |
| Compressive strength         | ~30 - 35 MPa - 28 Days (EN 12190)                                              |
| Flexural-strength            | ~5 MPa (28 days) (EN 196-1)                                                    |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------|--|-----------------------|------------|-------------------------------|------------------------|----------------------|--|---------------------|-------------------------|-------------------------|--|-----------------------|------------|
| Resistance to fire                                        | Euro Class A1 Declared                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Mixing ratio                                              | ~4.0 - 4.5 litres of water for 25 kg bags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Consumption                                               | This depends on the substrate roughness and thickness of layer applied. As a guide, ~17.4 kg of powder per m2 per cm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Yield                                                     | 25 kg of powder yields approximately 14.5 litres of mortar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Layer thickness                                           | min. 1.5 mm/ max. 5.0 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Ambient air temperature                                   | +5 °C minimum; +30 °C maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Substrate temperature                                     | +5 °C minimum; +30 °C maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Pot Life                                                  | ~30- 45 minutes at +20 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| System structure                                          | <p>Sika MonoTop®-620GH is part of the range of Sika mortars complying with the relevant part of European Standard EN 1504 and comprising of:</p> <table><tr><td><b>Bonding Primer/ Reinforcement Corrosion Protection</b></td><td></td></tr><tr><td>Sika Monotop®- 610 GH</td><td>Normal Use</td></tr><tr><td>SikaTop® Armatec® 110 EpoCem®</td><td>Demanding Requirements</td></tr><tr><td><b>Repair Mortar</b></td><td></td></tr><tr><td>Sika Monotop®- 412N</td><td>Concrete repair mortars</td></tr><tr><td><b>Levelling Mortar</b></td><td></td></tr><tr><td>Sika Monotop®- 620 GH</td><td>Normal use</td></tr></table> |  | <b>Bonding Primer/ Reinforcement Corrosion Protection</b> |  | Sika Monotop®- 610 GH | Normal Use | SikaTop® Armatec® 110 EpoCem® | Demanding Requirements | <b>Repair Mortar</b> |  | Sika Monotop®- 412N | Concrete repair mortars | <b>Levelling Mortar</b> |  | Sika Monotop®- 620 GH | Normal use |
| <b>Bonding Primer/ Reinforcement Corrosion Protection</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Sika Monotop®- 610 GH                                     | Normal Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| SikaTop® Armatec® 110 EpoCem®                             | Demanding Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| <b>Repair Mortar</b>                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Sika Monotop®- 412N                                       | Concrete repair mortars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| <b>Levelling Mortar</b>                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |
| Sika Monotop®- 620 GH                                     | Normal use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                           |  |                       |            |                               |                        |                      |  |                     |                         |                         |  |                       |            |

## BASIS OF PRODUCT DATA

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

## LIMITATIONS OF USE

- 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
- Do not add additional water during the surface finishing as this will cause discolouration and cracking
- Protect freshly applied material from freezing
- Apply only to sound, prepared substrate

## APPLICATION INSTRUCTIONS

**SUBSTRATE QUALITY / PRE-TREATMENT 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

## MIXING

Sika MonoTop®-620 GH 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 during the mixing time if necessary to the maximum specified amount and adjust to the required consistency.

## 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 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 re-

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