

Sika® MonoTop®-620 MY

Pore sealer / fairing coat

Product Description

Sika MonoTop®-620 MY is a one-part cementitious polymer-modified mortar containing silica fume. It is used as a superior finishing and protective top coat for concrete and concrete repair patches.

Uses

- As a pore sealer/finishing coat to concrete, mortar patches and screeds. It can be used in vertical, horizontal and overhead applications
- Restores the appearance of honeycombed or surface impaired concrete
- As a thin skin protective coating to concrete where the reinforcement is susceptible to corrosion
- To repair small defects on edges and joint sides, to form and finish joints and coverings

Characteristics / Advantages

- 1-part system, requires only the addition of water
- Easily applied and worked
- Application by trowel or spray
- Adjustable consistency to suit application
- High mechanical strengths
- Excellent bonding to substrate
- Non toxic
- Non corrosive

Tests

Approvals / Standards LPM (Laboratory for Preparation and Methodology), Beinwil am See, Switzerland – Test Report Number A-9748-1

Product Data

Form

Appearance / Colour Light grey mortar

Packaging 25 kg bag



Storage

Storage Conditions / Shelf Life 6 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10°C and +25°C. Keep away from direct sunlight.

Technical Data

Density

- Powder ~ 1.2 kg/ltr
- Fresh mixed mortar ~ 2.0 kg/ltr

Layer Thickness 1.5 mm - 5.0 mm (per coat)

Mechanical / Physical Properties

Compressive Strength 30 – 35 N/mm² (28 days / +25°C)

Flexural Strength 4 - 6 N/mm² (28 days / +25°C)

Bond On Concrete 1.5 – 2.5 N/mm² (on prepared concrete)

Modulus of Elasticity ~ 15,400 N/mm² (static)

Coefficient Of Thermal Expansion ~ 11 x 10⁻⁶ per °C

Water Vapour Diffusion Coefficient (μH₂O) ~ 120

Carbon Dioxide Diffusion Coefficient (μCO₂) ~ 350

System Information

System Structure Sika MonoTop[®] System comprises:

- Sika MonoTop[®]-610 MY bonding bridge and reinforcement protection
- Sika MonoTop[®]-615 SD or Sika MonoTop[®]-R or Sika MonoTop[®]-R40 repair mortar
- Sika MonoTop[®]-620 MY pore sealer / fairing coat

Application Details

Material Consumption ~ 1.65 kg of powder per m² per 1 mm thickness (depending on substrate condition)

Substrate Quality Substrate must be sound, clean and free from oil, grease, laitance and any loose particles. Special care must be taken to ensure that the substrate does not contain any coating, such as a curing membrane or release agent that will prevent the Sika MonoTop[®]-620 MY from adhering to the surface.

Application Conditions / Limitations

Application Temperature +5°C min. / +35°C max.

Application Instructions

Mix Ratio 4.5 litres of clean water per 25 kg bag

Mixing	Add the powder to the desired quantity of water. Mix with an electric drill and mixing paddle attachment at 500 rpm. Mixing at higher speeds may entrain air which will affect the finishing properties of the mortar.
Application Method / Tools	Sika MonoTop®-620 MY must be applied to a pre-dampened substrate. Apply by trowel or by air driven spray equipment. Best results are obtained when the substrate and ambient temperatures are falling. After application, when the mortar has stiffened but not dried, various methods may be employed to obtain the required surface finish, for example plasterer's tools to obtain a flat smooth even surface, sponge finish, etc. The addition of water to the surface to obtain the desired finish is not recommended as this may cause colour variations and surface cracking
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be mechanically removed.
Pot Life	60 minutes
Curing Details	
Curing Treatment	To achieve the full potential of any cement based product, curing is essential. This can be carried out with the application of a curing compound such as Antisol®-E (1 time application only) or with other curing practices such as covering with polythene sheets or damp hessian for 3 days.
Value Base	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.
Health and Safety Information	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 (available upon request) containing physical, ecological, toxicological and other safety-related data.
Legal Note	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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