

Sika MonoTop[®] -620

Cementitious fairing coat

Construction

Description	Sika MonoTop-620 is a cementitious polymer modified mortar containing Silica Fume for use as a finishing and protective top coat for concrete repair patches.
Uses	<p>As a thin layer fairing or sealing skim coat to concrete, mortar patches and screeds, in vertical, horizontal and overhead applications.</p> <p>Restores the appearance of honeycombed or surface impaired concrete caused by faulty formwork. Provides a continuous dense and smooth surface that will allow protective and other architectural coatings to be applied free of pin holes.</p> <p>As a thin skin protective seal coat to concrete where the reinforcement is susceptible to corrosion.</p> <p>As a repair and reprofiling mortar for concrete joint edges, corner fillets etc.</p> <p>For use in conjunction with the Sika MonoTop concrete repair system:</p> <ul style="list-style-type: none"> • Sika MonoTop-610 Bonding Mortar Protection. • Sika MonoTop-615 HB Patching Mortar. • Sika MonoTop-620 Fairing Coat.
Advantages	<ul style="list-style-type: none"> • One component system requires only the addition of water. • Easily applied and worked. • Adjustable consistency to suit application. • High mechanical strengths. • Excellent bonding to substrate. • Frost resistant. • Protective barrier against reinforcement corrosion. • Non toxic.
Storage and Shelf Life	Stored in the original sealed packaging in dry conditions, this product will keep for at least nine (9) months.
Instructions for Use	
Surface Preparation	<p>Correct and thorough surface preparation is essential to achieve the high adhesive qualities of Sika MonoTop mortars.</p> <p>All surfaces must be clean, sound and free from dust, ice, oils, grease or other surface contaminants such as curing membranes and form release agents, etc.</p> <p><i>Concrete, Mortar, Stone:</i> Mechanically abrade the surface with a needle gun, mechanical wire brush, grind, grit or water blast. All surface laitance must be removed.</p> <p>The strength of the concrete or mortar substrate should be at least 20 MPa.</p> <p>The prepared substrate should be thoroughly soaked with clean water until uniformly saturated, leaving no standing water ie. Saturated Surface Dry (SSD) condition</p>
Mixing	Sika MonoTop-620 should be mechanically mixed in a forced action mixer or in a clean drum using a drill and spiral mixer at a speed of approximately 200 rpm. Mixing time should be at least 3 minutes until a smooth consistency of uniform colour and texture is achieved.

Mixing (continued)	Pour 80% of the recommended water content into the mixing vessel. Add the powder slowly while continuing to mix. After all the powder lumps are dispersed add the remaining water. If Sika MonoTop-620 begins to stiffen within a few minutes of mixing, it may be necessary to remix the mortar to regain a smooth, workable mix.
Application	Sika MonoTop-620 must be applied to a pre-dampened substrate. Apply by trowel, spatula 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. 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	Remove soft Sika MonoTop-620 from tools and equipment with water. Hardened material can only be removed mechanically.
Additional Protective and Decorative Coatings	Sikagard-680S is recommended as further protective and decorative coatings to the treated surface. Protective and decorative coatings can be added typically after 24 hours.
Curing	Suitable curing methods as per the Concrete Institute's recommended practice, such as plastic sheet, wet hessian, liquid membrane (eg. Sikagard-680S (Finish), or Antisol curing compounds) etc. must be used to protect the freshly applied mortar from the drying effects of sun and wind.
Specification	
Overall Levelling and Refurbishment	To the overall prepared, pre-dampened (saturated surface dry) concrete surfaces repaired or unrepaired, apply a scraping/levelling mortar to fill and level all blowholes and other surface defects using Sika MonoTop-620 at a nominal thickness of 2mm. In the case of a very rough profile it is possible that 2mm of Sika MonoTop-620 will not completely fill and level the given surface. In this instance a prior levelling coat of Sika MonoTop-620 should be applied to fill any variation as required. Curing Sika MonoTop-620 should be carefully finished with a sponge float to give a uniform texture to the surface whilst assuring that the correct profiles at edges, corners and other details be maintained. Curing Sika MonoTop-620 must be carried out subject to ambient conditions. The Sika MonoTop-620 may be overcoated with the final protective coating system as soon as it has cured, typically after 24 hours.
Full Specification	For a detailed concrete repair and protection proposal to assist with you specification contact your local Sika office. Sika offer a full range of specification aids for concrete repair and protection, coatings and impregnations, corrosion inhibitors, structural strengthening and flooring systems.
Technical Data (Typical)	
Form	Smooth, paste like mortar
Granulometry	0 – 0.5 mm
Density (mixed)	1800 kg/m ³
Mixing ratio	Water : Powder 1 : 5 to 5.5 by mass depending on required consistency. To one bag of Sika MonoTop-620 add 3.6 to 4 litres of water.
Potlife at 20°C	50 minutes approx.



Technical Data (Typical) continued

Application thickness	Minimum 1.5 mm Maximum 5 mm
Application temperature	+5°C - +35°C (<i>substrate and ambient temperatures</i>) +5°C - +25°C (<i>mortar temperature</i>)
Compressive strength	32 – 37 MPa at 28 days
Flexural strength	4 – 6 MPa at 28 days
Bond strength	1.5 – 2.5 MPa approx. at 28 days
Colour	Grey
Consumption/Coverage	1.8 kg/m ² per mm thickness (<i>dependent on surface profile, texture, temperature, loss and wastage</i>)
Packaging	20 kg bag

Important Notes

- Application
 - apply only to clean, sound substrates
 - large blowholes and very rough surfaces should be prefilled
 - never apply to dry substrates
- Mixing
 - Sika MonoTop-620 has various uses while may necessitate adjusting the consistency slightly to better suit the particular application. A reduction of up to 10% of either the powder or water is permissible to either stiffen or increase workability of the mixed mortar.
- Limitations
 - Sika MonoTop-620 should not be used in temperatures lower than 5°C
 - Application should not take place when rainfall is occurring or is likely to occur (unless sheltered or protected).
 - Do not expose the Sika MonoTop-620 to running water during and after application, until it has hardened.
 - Sika MonoTop-620 does not bridge moving cracks.
 - The material is not suitable for use as an adhesive for ceramic tiles.

Handling Precautions

- Avoid contact with the skin.
- Protective gloves and clothing are recommended when mixing or using this product.
- A full material safety data sheet is available from Sika on request.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

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