

Sika[®] MonoTop[®] High Build Mortar (NZ)

High build lightweight repair mortar

Positioning

Description

Sika MonoTop High Build Mortar is a cementitious, polymer modified, one component, repair mortar containing reactive microsilica. Sika MonoTop High Build Mortar is part of the MonoTop system for concrete repair and protection.

Uses

- Sika MonoTop High Build Mortar is a lightweight repair mortar, which can be applied in thick layers in vertical and overhead applications.
- It is ideal for use in repairing damaged and spalled concrete caused by reinforcement corrosion.
- Sika MonoTop High Build Mortar can be used for most types of general concrete repair and reinstatement work.

Advantages

- Excellent high build and workability characteristics.
- Enables rapid repair work to be undertaken.
- One component - just add water and mix.
- Layer thicknesses up to 80 mm are possible in vertical applications without the use of formwork.
- Microsilica and polymer modified.
- Good resistance to water and chloride ion penetration.
- Improved sulphate resistance.

Product Data

Form:

Cement based powder.

Colour:

Mid Grey when applied.

Storage & Shelf Life:

Six (6) months in unopened, original packaging when stored free from frost and in cool dry conditions below 25°C.

Packaging:

18 kg multi-wall paper bags.

Technical Data

Density:

Approx. 1.4 kg/litre - wet density of freshly mixed mortar.

Compressive strength:

23 MPa approx. at 28 days.

Flexural strength:

4 MPa approx. at 28 days.

Bond strength:

2 - 3 MPa approx. using MonoTop Primer as a bonding slurry.

Elastic modulus:

23,000 MPa approx.

Water permeability:

(ISAT) BS1881 Part 5

0.004 ml/m²/sec (satisfies low classification).

Pot life:

60 minutes approx. at 20°C

Application temp:

Minimum 5°C / Maximum 30°C

Application

thickness/layer:

Minimum 5 mm; Max. unsupported thickness in overhead application 60 mm

Mixing ratio by weight:

1 part water : 5.3 parts powder approx.

Yield:

18 kg = approx 15.3 litres when mixed with 3.4 litres of water.

Application Conditions

Surface Preparation

- Sika MonoTop High Build Mortar must be applied over a bonding slurry of Sika MonoTop Primer. Refer to MonoTop Primer data sheet for information on surface preparation and priming.
- All 'feathered' edges around the area to be repaired should be squared off with an angle grinder and chiselled down to a minimum depth of 10 mm.

Mixing

- Pour 3.1 – 3.4 litres (maximum) of clean fresh water into a suitable mixing container and slowly add all of the powder while mixing continuously with a Sika mixing paddle attached to a low speed electric drill (max. 500 rpm). Thoroughly mix until a smooth, lump free consistency is achieved. A minimum mixing time of 3 minutes is recommended.

Supplied by

everitts.co.nz

RIGHT PRODUCT
RIGHT PRICE
RIGHT TO YOUR SITE



09 42 68 101

sales@everitts.co.nz

www.everitts.co.nz

Application	<ul style="list-style-type: none"> While the bonding coat of Sika MonoTop Primer is still tacky, pack the mortar well into the cavity or repair. Use a placing rather than a rendering technique to fill all voids and ensure thorough compaction is achieved. Force the Sika MonoTop High Build Mortar against the edge of the repair and progressively work towards the centre. For overhead repairs in excess of 60mm thick and vertical repairs in excess of 80mm thick apply in layers. If more than one layer is required score the first layer and allow to harden. Dampen the surface before applying subsequent layer. If more than 48 hours lapses the first layer will need to be re-primed with Sika MonoTop Primer. Steel trowel the final layer if required to achieve a smooth, tight finish.
Cleaning	<ul style="list-style-type: none"> Clean all tools and equipment with water immediately after use. Hardened Sika MonoTop High Build Mortar can only be removed mechanically.
Important Notes	<ul style="list-style-type: none"> Only apply Sika MonoTop High Build Mortar to sound substrates that have been dampened and primed with Sika MonoTop Primer (refer to separate data sheet for further information). Sika MonoTop Fairing Coat can be used to provide a fairing/levelling coat over the whole surface if required. (Refer to separate data sheet for further information). As with all concrete and mortars, it is essential to protect Sika MonoTop Structural Mortar from water evaporation during the crucial early age curing period, with water spray, wet hessian or polythene sheets. If no further coatings are to be applied to the finished surface, a membrane curing compound may be used. Refer to Antisol data sheet for further information. High quality, long term repairs can only be achieved if they are carried out conscientiously by experienced applicators giving adequate detail to surface preparation, priming of concrete and steel, mixing of repair mortars, application and curing.
Notes	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.
Local Restrictions	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.
Safety Instructions	
Protective Measures	<ul style="list-style-type: none"> To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work. Local regulations as well as health and safety advice on packaging labels must be observed. For further information refer to the Sika Material Safety Data Sheet which is available on request. If in doubt always follow the directions given on the pack or label.
Important Notes	<ul style="list-style-type: none"> Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.
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.

Supplied by



RIGHT PRODUCT
RIGHT PRICE
RIGHT TO YOUR SITE



09 42 68 101

sales@everitts.co.nz

www.everitts.co.nz