

Sika® MonoTop®-615

Light-Weight, Polymer Modified, Repair Mortar

Product Description	Sika® MonoTop®-615 is a lightweight, cementitious, silica fume containing polymer modified, one-component repair mortar. This product is suitable for use in tropical and hot climatic conditions.
Uses	Sika® MonoTop®-615 is suitable for concrete repairs, especially in overhead and vertical applications.
Advantages	Sika® MonoTop®-615 is pre-packed and easy to use requiring to be mixed with water only. <ul style="list-style-type: none">■ Excellent workability■ Adjustable consistency■ Especially suitable for overhead and vertical applications■ Good mechanical strengths■ Excellent sulphate and frost resistance■ Excellent thixotropic behavior■ Applicable in layers up to 30 mm thickness■ Non corrosive, non toxic■ Suitable for wet spray application
Test Report	LPM;Laboratory for Preparation and Methodology (Beinwil am See, Switzerland) EMPA, Federal Material testing Laboratory (Dubendorf, Switzerland)

Product Data

Type	Cementitious, polymer composition
Form	Grey Powder
Packaging	25 kg bag
Storage Condition	Store in a dry area between 5°C and 35°C. Protect from direct sunlight
Shelf life	12 months minimum from production date if stored properly in original unopened packaging

Technical Data

Mixing ratio	Add 14 -17 % water to the dry mix (3.5 – 4.25 litres of water per 25 kg bag)
Pot life (30°C)	35 - 40 minutes
Density	Approximately 1.65 kg/lit (Fresh mortar)



Mechanical Strengths (28 days) (ASTM C109)	Compressive strength (25°C)	= 30 - 35 N/mm ²
	Flexural strength	~ 7 N/mm ²
	Adhesion (Pull-off)	> 1.5 N/mm ² (concrete failure)
Modulus of elasticity	Approximately 13'000 N/mm ² (static)	
Coefficient of thermal expansion	Approximately 11.10 ⁻⁶ m/m per °C	
Index of Vapor diffusion	Approximately μ H ₂ O = 100	
Index of CO₂ diffusion	Approximately μ CO ₂ = 500	
Yield	Approximately 17.3 Litres per 25 kg bag	
Layer Thickness	Minimum	5 mm
	Maximum	30 mm
Temperature	Minimum 5°C, Maximum 40°C	
Application Details		
Substrate preparation	Substrates must be clean, sound, free from dust, loose particles, cement laitance, curing compounds, oil, grease or any other contamination. Metal surfaces (steel and iron) should be free from scale, rust, oil and grease. Pre-wet substrate to saturated surface dry condition prior to application. Avoid puddles and standing water.	
Mixing	Pour water in given quantity into the mixing container. Add powder while mixing continuously. Use low speed electric mixers (max. 500 rpm) for 3 minutes avoiding entrapping of air. By adding the powder slowly in portions, the desired application consistency can be obtained.	
Application	A bonding agent, such as Sika MonoTop-610 or SikaTop Armatec 110 EpoCem is highly recommended. Apply Sika® MonoTop®-615 while the bonding agent is still wet. Sika® MonoTop®-615 can be applied by wet-spray equipment such as Putzmeister, Melomat, Vario-Jet etc. The mortar can also be applied by spatula or trowel. For a thickness greater than 30 mm, Sika® MonoTop®-615 must be applied in several layers. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, styrofoam block or sponge. For a very fine surface finish, Sika MonoTop 620 / 625 can be applied over the Sika® MonoTop®-615 .	
Curing	Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hours or a suitable water based curing compound (Sika Antisol E) is recommended. Do not commence fogging until final set has been reached.	
Cleaning	Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.	
Remarks	Sika® MonoTop®-615 should not be used at temperatures below 5°C. At ambient temperatures above 35°C, the material should be stored in the shade and chilled water should be used for mixing. Sika® MonoTop®-615 may be over coated with Sikagard ElastoColor W, Sikagard-680 S, Sikagard-550 W Elastic and all Sika Rep and MonoTop products.	
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.	

Safety

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related 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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