Product Data Sheet Edition: September 2019 Version: 01 Sika® MonoTop®-610

## Sika<sup>®</sup> MonoTop<sup>®</sup>-610

Bonding slurry and anti-corrosion reinforcement primer

Product Description	Sika <sup>®</sup> MonoTop <sup>®</sup> -610 is a cementitious, polymer modified one component bonding slurry and primer with active corrosion inhibitors, used for protection of reinforcing steel.
Uses	<ul> <li>Corrosion protection for steel reinforcement in concrete repair.</li> </ul>
	<ul> <li>Bonding slurry on prepared concrete and mortar for Sika<sup>®</sup> MonoTop<sup>®</sup> repair mortars.</li> </ul>
Characteristics / Advantages	<ul> <li>Only requires mixing with water</li> </ul>
	Easy, user friendly application
	Excellent adhesion to concrete and steel
	<ul> <li>Good resistance to water and chloride penetration</li> </ul>
	<ul> <li>Meets ZTV-SIB requirements for corrosion protection</li> </ul>
	<ul> <li>Moisture insensitive</li> </ul>
	<ul> <li>Good mechanical properties</li> </ul>
	Sprayable by wet spray method
	<ul> <li>Adjustable consistency</li> </ul>
Tests	
Approval / Standards	
Product Data	
Form	
Appearance / Colour	Powder Grey
Packaging	25kg bags
Storage	
Storage Conditions / Shelf Life	6 Months in original, unopened packaging. Store in a dry area between 5°C and 30°C. Protect from direct sunlight and moisture.
Technical Data	
Chemical Base	Cement and Crystalline free Silica aggregate.
Density	Approx. 2.0 kg/litre density of fresh mortar.
Layer Thickness	0.5 – 2 mm



<b>Mechanical Properties</b>	
Compressive Strengths	(28 days, +23°C / 50% r.h.) 30 – 35 N/mm <sup>2</sup>
Adhesive Tensile	1.5 – 2.5 N/mm <sup>2</sup> (concrete failure)
Application Details	
Consumption / Dosage	Bonding Slurry: 1.5 – 2.0 kg/m <sup>2</sup> Anti-corrosion Primer: 4 kg/m <sup>2</sup> @ 2mm thick
Substrate Quality	The concrete substrate must be sound and of sufficient compressive streng (min.20 N/mm <sup>2</sup> (MPa) with a minimum pull off strength of 1.5 N/mm <sup>2</sup> (MPa).
	The surface must be dry and free of all contaminants such as oils, grease, coatin and surface treatments etc.
	The substrate must be prepared mechanically to remove cement laitance a achieve a profile open textured surface.
	Weak concrete should be removed and surface defects such as honeycomb areas: blowholes and voids must be fully exposed.
	Repairs to substrate, filling of blowholes/voids and surface levelling should be carri out using appropriate from the Sikafloor <sup>®</sup> , SikaDur <sup>®</sup> and SikaGard <sup>®</sup> range materials.
Substrate Preparation / Priming	Precise and efficient surface preparation is essential to achieve the high adhesi qualities of Sika <sup>®</sup> MonoTop <sup>®</sup> .
-	All concrete, mortar and stone substrates must be sound, clean and free from oi grease or surface contaminants. All loose materials and surface laitance must removed by high pressure water jet blasting or similar mechanical means. Sm areas and 'spot' repairs should be mechanically prepared by needle gunning, bu hammering or similar means.
	The prepared substrate should be thoroughly soaked with clean water until uniforn saturated, leaving no standing water.
	Steel reinforcement should be grit blasted to a bright steel condition to remove traces of rust and contamination prior to applying Sika <sup>®</sup> MonoTop <sup>®</sup> -610 corrosi protection.
Application Conditions	; / Limitations
Substrate Temperature	+5°C min. / +30°C max.
Ambient Temperature	+5°C min. / +35°C max.
Substrate Humidity	< 10%
Application Instruction	S
Mixing (Ratio/ Dosage)	5.0 – 5.5 litres water per 25kg powder
	Add the Sika <sup>®</sup> MonoTop <sup>®</sup> -610 slowly while mixing continuously. To avoid entraini too much air use a slow speed mixer (max. 500 rpm). By gradually adding t powder in portions, the desired application consistency can be obtained. Sik
	wohorop oro must be mixed to a brashable, amost hor any consistency.
Application Method / Tools	
Application Method / Tools As a Reinforcement Primer	Apply two coats of approximately 1 mm thickness each, using a stiff brush or suitat spray equipment, onto the cleaned reinforcement. Allow to reach initial set ('thum nail' hard) - up to 5 hours between coats depending on conditions. Allow at least hours curing after second coat if repair mortar is to be spray applied.



Cleaning of Tools	Application and mixing tools should be cleaned with water immediately after use.
	Hardened material must be removed mechanically.
Pot Life (Max. Open Life)	Approx. 90 – 120 minutes
Notes on Application / Limits	Allow the mixed Sika <sup>®</sup> MonoTop <sup>®</sup> -610 to stand for approximately 10 minutes before applying.
	Concrete should be a minimum of 28 days old.
	The normal precautions pertaining to dew point should be observed.
Local Restrictions	Please note that as a result of specific local regulations the performances of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
Health and Safety	
Information	
Protective Measures	Cement containing material may cause skin irritation. Wear gloves and goggles or apply barrier cream to hands while working with the mortar.
Ecology	
Transportation Class	
Important Notes	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 Material Safety Data Sheet.
Toxicity	
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 or accessed on the Internet under https://eth.sika.com



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