

PCC II and PCC III type cement-based repair mortar with high resistance to sulphates, designed for making coatings with a maximum thickness of 30 mm

Product description	Ready to use, dry, cement-based, polymer modified, mineral mortar		
Scope of application	<ul style="list-style-type: none">For repair and modernization of concrete surfaces in civil engineering,For repair and modernization of concrete surfaces in water engineering constructions.		
Properties	<ul style="list-style-type: none">One-component,Suitable for manual application or using spraying technique,Based on sulphate resistant cementVery good adhesion to concrete,High resistance to carbonation,High sulphate corrosion resistance,		
Characteristics of the product			
Appearance	Gray powder		
Packaging	25 kg paper bag, reinforced with polyethylene foil; single pallet: 42 x 25 kg = 1050 kg per euro pallet.		
Shelf life	9 months from date of manufacture, assuming storage in undamaged original packaging.		
Storage conditions	Store the product in a dry, cool place, avoid direct sunlight.		
Technical data			
Adhesion to the substrate according to PN-EN 1542	≥ 1.5 MPa		
Bending and compression strength according to PN-EN 13892-2:2004		Compression strength [MPa]	Bending strength [MPa]
	3 days	≥20	≥ 4.5
	7 days	≥35	≥ 6.0
	28 days	≥50	≥ 8.5
Application			
Consumption	Approx. 19 kg/m ² with the coating thickness of 10 mm.		
Substrate preparation	<p>The concrete substrate, on which the laying of SICON REPAIR 6/30 material is allowed, should meet the following requirements:</p> <ul style="list-style-type: none">in terms of strength – the average strength of the substrate tested using “pull-off” method should be at least 1.5 MPa, and the value of a single measurement should not be less than 1.0 MPa,in terms of purity – the concrete surface should be free of cement paste, loose fraction, dust, oil stains, grease and other contaminants that can reduce its adhesion,in terms of roughness – the substrate should be roughened,in terms of humidity – the concrete surface should be matt and damp (uniformly dark, matt, devoid of bright and dark spots, and standing water).		
Mixing ratio	Approx. 15 – 16% of water; i.e., approx. 3.75 - 4.0 liters per 25 kg of dry blend.		
Mixing method	<p>SICON REPAIR 6/30 must be mixed using a counter-stirrer. Pour approx. 2/3 of water into a container, then pour the bag contents. After a short mixing refill the remainder water, then mix until the desired consistency is obtained. SICON REPAIR 6/30 must be mixed in a concrete countertop mixer, or a counter-stirrer.</p> <p>Stirring time: approx. 5 minutes.</p> <p>The equipment used for SICON REPAIR 6/30 repair mortar should be cleaned with water.</p>		
Application	<p>SICON REPAIR 6/3 mortar may be applied manually with a steel trowel or using wet spraying method.</p> <ul style="list-style-type: none">Thicknesses of the applied coatings: from 6 to 30 mm in one cycle,Maximum total coating thickness: 60 mm		
Curing	Freshly treated surfaces should be protected from drying out too quickly. It is recommended a water sprinkling, covering with a damp fabric, or use of a preparation for surface protection.		
Application conditions			
Ambient temperature	<ul style="list-style-type: none">minimum +5°C, maximum +30°C (refers to air and substrate temperature),recommended application conditions: temperature approx. +20°C, relative humidity of air approx. 50 %. Lower temperatures and higher humidity delay, while higher temperatures and lower humidity accelerate the bonding process and shorten the processing time.		
Material processing time	<p>Material processing time:</p> <ul style="list-style-type: none">is approx. +45 minutes at 20°C,		
Comments and recommendations			
Health and safety conditions	<p>The main component of the preparation is cement, therefore use personal protective equipment, the same as when working with cement, i.e., gloves and goggles, when handled. Detailed guidance on safety, health and hazardous properties of the material are included in the Material Safety Data</p>		

	<p>Sheet - supplied by the manufacturer upon request.</p> <p>Disposal of empty packaging lies with the end user and should be carried out in accordance with applicable regulations.</p>
Legal notices	<p>These instructions has been drawn up according to the current state of the art and experience in the application of the product, they refer to the products stored in accordance with the specified instructions. The product documentation provides for general information applicable under certain conditions. It is recommended that before using the product on a large scale, the purchaser tests it under specific construction environment conditions. The supplier has no control over the use, methods of application and execution conditions occurring at the construction site, and therefore no responsibility of the supplier for the final effect of the application may arise from these instructions. Recommendations of Sicon partners that differ from the information included in the Safety Data Sheet shall apply only in the case of their written confirmation.</p> <p>Date of issue: 01/2016</p> <p>All previously issued Sicon Repair 6/30 safety data sheets shall expire on the date of issue of this sheet.</p>