Mineral bonding coating

Product description	Ready to use, dry, cement-based, polymer modified, mineral mortar	
Use	• A bonding coating on the surface of concrete and mortar, • Anticorrosion coating for protection of reinforcement.	
Properties of the flooring with SICON CONTACT MC 100	• High adhesion to surfaces of concrete and mortar, • Can be applied using “wet on wet” method, • Can be applied by spraying and brushing, • Anti-corrosion properties.	
Technical data		
Mechanical properties	Adhesion to the substrate according to PN-EN 1542	≥ 1.5 MPa
SICON CONTACT MC 100 Product Data		
Form	Gray powder	
Package	25 kg paper bags with polyethylene foil, 42 x 25 kg = 1050 kg single Europallet	
Shelf life	Shelf life of the product is 12 months from date of manufacture, assuming storage in undamaged original packaging.	
Storage conditions	Store the product in a dry, cool place, avoid direct sunlight.	
Application		
Consumption	Estimated consumption of the preparation: • 0.7 – 2.2 kg/m^2 when executing a bonding coating • 2.2 – 3.7 kg/m^2 of reinforcement bar when applied twice,	
Substrate preparation	• The concrete surface should be free of cement milk, dust, loose defects and impurities, such as, e.g., Lubricants, oils and other • The surface should be matted/roughened, • The average strength of the substrate should be min. 1,5 MPa, and the value of a single measurement cannot be less than 1,0 MPa, • The concrete surface should be matt and damp (uniformly dark, matt, devoid of bright and dark spots, and standing water). • Prior to the material application, the elements of reinforcing steel should be cleaned of rust to Sa 2 ½ degree of purity, using abrasive blasting (e.g. sand blasting), according to PN-EN ISO 8501-1.	
Stirring ratio	Add approx. 20 – 25% of water; i.e., approx. 5 - 6 liters per 25 kg of dry preparation.	
Stirring	Pour approx. 2/3 of water into a container, then pour the bag contents. Mix the contents using a contra-rotating stirrer (with a maximum rotational speed of 500 rpm) Add the remaining part of water and continue the mixing. The total mixing time should be approximately 4 - 6 minutes..	
Types of application		
Reinforcement protection against corrosion	The mixed mortar should be applied with a brush, in two cycles. The first coating must be bound, before applying the second coating, usually it occurs after approx. 3 hours. Particularly important in the application process it is to uncover and clean the reinforcement and accurately distribute the product, especially in hard to reach places.	
Bonding coating	The mixed mortar should be applied on matt and damp substrate with a brush - wide brush or by spraying. The size of the bonding coating surface should be so selected that the mortar can be applied on the unbound bonding coating ("wet on wet” application method). If the bonding coating dries before applying a repair mortar, remove and re-apply it.	
Application conditions		
Ambient temperature	• Minimum +5°C , maximum +30°C, • Recommended application conditions: temperature approx. +20°C, relative humidity of air approx. 50 %.	
Material processing time	Material processing time depends on: • Temperature - and respectively equals to: - approx. 40 minutes at+30°C, - approx. 60 minutes at+ 23°C, - approx. 90 minutes at+ 10°C, • With the relative humidity of air – higher humidity increases the processing time.	
Comments and recommendations		
Health and safety conditions	The product contains cement, therefore, in case of its application, use personal protective equipment as gloves and goggles. Detailed guidance on safety, health and hazardous properties of the material are included in the Material Safety Data Sheet - supplied by the manufacturer upon request.	
Final remarks	The included technical specifications are based on laboratory tests. Actual measurements results may vary from the enclosed ones, due to circumstances beyond the control of Sicon. All information is provided in good faith, taking into account the current state of the art and the experience gained. 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. Date of issue: 01/2016 All previously issued Sicon CONTACT MC 100 safety data sheets shall expire on the date of issue of this sheet.	