

Sikagard® -920 BR

Cementitious Levelling and Protective Coating

Product Description	A cement based, polymer modified, one component, levelling and protective coating Sikagard® -920 BR combines the crystallization action (pore block) and polymers to enhance resistance to chlorides and gases. It acts as a thin layer levelling and coating material for concrete and renders with excellent protection properties. It Consists of special fillers, cement and properly graded aggregates.
Uses	Sikagard® -920 BR is used as an economical and easy to apply as slurry for both external and internal applications of civil structures above ground. It is used as well for sealing hair line cracks in concrete not subject to movement to protect concrete Sikagard® -920 BR is suitable for the following applications: <ul style="list-style-type: none"> ■ Bridges. & Balconies. ■ Retaining walls/bridge structures. ■ Sea walls/irrigation channels. ■ Facades & fair face concrete. ■ Concrete exposed to carbonation ■ Concrete exposed to chloride or sulphate environments.
Advantages	Sikagard® -920 BR offers the following advantages: <ul style="list-style-type: none"> ■ One component, just added water. ■ Protective and levelling, crystallization and polymer modified cementitious slurry. ■ Impermeable & weathering & carbonation resistant ■ Brush or trowel applied. ■ Good adhesion to sound surfaces. ■ Improves concrete/masonry appearance. ■ Can be applied to green concrete
Approvals / Tests	Sikagard® -920 BR has been tested as per SCAQMD Rule 1168. Result: VOC Content < 5 g/L
Product Data	
Form	Powder
Colour of Mix	Grey
Packaging	30 kg unit
Storage Conditions	Store in dry conditions, protected from moisture and frost.
Shelf Life	12 months from date of production if stored properly in undamaged and unopened original sealed packing.
Technical Data	
Density	1.60 kg/l
Paste Specific Gravity	1.74
Compressive Strength	After 28 days: > 15 N/mm ²
Flexural Strength	After 28 days: > 4 N/mm ²
Bond Strength	After 28 days: ~ 0.7 N/mm ² All results based on our quality control. Lab condition
Pot Life	~ 40 min @ 20 C
Open Time	Up to 30 min after mixing in optimum Temp.



Application Details

Mixing Ratio	10 - 11 lit. of water per 30 kg. in coating system In case of levelling we have to reduce the required water for plastic mortar
Coverage	Approx. 1.75 kg. powder /m ² for thickness of 1.0 mm. Two coats application depending on the surface and consistency required. Minimum two coats recommended on application.
Surface Preparation	Concrete surfaces must be clean, free from oil grease and loosely adhering particles Non-sand blasted surfaces may affect the performance of the crystallization process and the bond of the cementitious slurry. All surfaces must be as true and flat as possible. Saturate absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry (SSD) condition.
Application Mixing	Place three quarters (3/4) of the water in a suitable mixing container. Add the powder to the water while mixing. Mechanical mixer must be used to ensure proper dispersion of the powder. After the entire powder has been added mix for an additional three minutes. The remaining one quarter (1/4) of the water is added during the addition of the powder to achieve the desired consistency.
Application	While the substrate is still in a SSD condition, apply the first coat and leave to harden (4-6 hours). Apply the second coat as soon as possible, after hardening of the first coat, to ensure proper adhesion between layers. For slurry consistency apply with a hard-bristle brush or broom. For the trowelable mortar use a notched trowel. After application of the second coat, finish Sikagard® -920 BR by rubbing down with a soft dry sponge.
Cleaning	Clean all tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.
Important Considerations	Sikagard® -920 BR will not bridge cracks or existing joints and has no added flexibility to overcome micro-cracking in the concrete.
Curing	To ensure the optimal impact of the dual water proofing capability of the Sikagard® -920 BR, it should be moist cured for a minimum of 24 hours to initiate the crystallization process (pore block) and then mist cured for an additional 24 hours. When moist curing is not possible the water proofing capability of the Sikagard® -920 BR is provided by the polymer modified cementitious slurry.
Safety Instructions	Wear gloves and goggles.
Safety Precautions	In contact with eyes or skin, product may cause irritation.
Ecology	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.
Toxicity	Non-Toxic under relevant health and safety codes.
Transport	Non-hazardous

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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