

Sikagard[®]-700S

Mineral substrate impregnation

Construction

Description	Sikagard-700S is a single-pack solvent containing impregnation based on silane/siloxane with good penetrative properties. It forms a hydrophobic (water repellent) but water vapour permeable surface on mineral substrates.
Uses	<p>Impregnation for mineral substrates such as concrete and plaster surfaces, natural stone, aerated concrete, brick work and blockwork, asbestos cement, some mineral paint coats, Sika MonoTop mortars, etc. providing resistance against driving rain and dampness. Sikagard-700S is mainly used to protect building facades and exposed concrete or cementitious mortar surfaces against moisture ingress.</p> <p>Sikagard-700S is also used as a primer underneath Sikagard-680S on concrete or cement mortar surfaces in cases of heavy exposure and marine environments.</p>
Advantages	<ul style="list-style-type: none"> • Provides an hydrophobic surface layer which prevents the passage of moisture and hence water borne salts (chlorides) into concrete and thereby enhances durability. • Sikagard-700S penetrates deeply into the substrate, dries tack free and is highly alkaline resistant. It develops a very durable chemical cohesion with silicates in the substrate. • It provides a very good impregnation against driving rain; it does not, however, stop diffusion of water vapour. The appearance of the structure is not changed. • The 'freeze/thaw' resistance is improved, the tendency to contamination reduced.
Storage and Shelf Life	Stored in the original packaging in dry conditions, this product will keep for at least two (2) years.
Instructions for Use	
Surface Preparation	<p>The substrate must be free of dust, soot and dirt. Lime efflorescence, salt and paint remnants, etc. must be removed, if necessary with suitable detergents or by light sand blasting or steam cleaning. Cracks must be carefully filled and levelled up.</p> <p>The best impregnation effect is achieved on a dry, very absorbent surface, although Sikagard-700S can also be successfully employed on a slightly damp surface (moisture content not more than 5% by weight).</p>
Mixing	Sikagard-700S is supplied ready for use. No mixing is required.
Application	<ol style="list-style-type: none"> 1) To ensure that sufficient masonry water repellent reaches the masonry surface it should be applied by flood coating or low pressure spraying (do not allow mist to form). Smaller areas may be applied by brush or roller although care is necessary to avoid too little of the masonry water repellent being applied to the surface with consequently poor depth of penetration. 2) Generally 2 or 3 applications of masonry water repellent are adequate both for strongly absorbent materials and for less absorbent materials. The second or subsequent application can take place when the first has been absorbed, i.e. when the surface is no longer glossy. 3) In the case of very dense construction materials (e.g. substrates made of clinker, mosaic, marble, exposed aggregate or high density concrete

Application (continued)	substrates) where the water absorbent joints have to be made water repellent it is advisable to give the surface a final wash with mineral spirits 20-30 minutes after the masonry water repellent has been applied. Thus a silicone film forming on the non-absorbent area and possible greying are prevented. Waiting time between top coats or Sikagard-680S: 5 hours minimum, 1 week maximum. Furthermore, the first coat of Sikagard-680S Clear Glaze, Transparent or Finish must be thinned with approx. 10% Thinner C.
Cleaning	Clean application equipment with mineral turpentine.
Technical Data (Typical)	
Form	Colourless liquid.
Density	0.8 kg/litre
Colour	Clear
Consumption/Coverage	0.25 to 0.50 litres/m ² approx. (depends on substrate porosity)
Packaging	20 litre pail 205 litre drum
Important Notes	<ul style="list-style-type: none"> • If there are joints to be sealed on concrete surfaces which have been impregnated with Sikagard-700S, eg. precast concrete elements, adhesion to these pretreated surfaces will not be impaired. Naturally, the primers corresponding with the respective sealants must always be used. • Sikagard-700S is unsuitable for use on concrete pavers which may be in contact with the ground. Salts coming through the substrate may lead to a subflorescence effect causing damage to the pavers. This effect may be mitigated by treating all faces of the pavers with Sikagard-700S, with total immersion being one feasible method. • Areas not to be impregnated, such as window panes and frames, etc. which are in danger of being contaminated with Sikagard-700S, should be carefully masked prior to application, as the Sikagard-700S cannot be removed afterwards from glass. • When applying Sikagard-700S care must be taken where there are fitted cable lines, plastic control panels or similar. Whereas PVC is resistant to Sikagard-700S, polystyrene elements and various synthetic rubber parts may be damaged. It is recommended that anything of this nature should be fixed after the application of Sikagard-700S or be protected adequately to prevent contamination during application. • Sikagard-700S is supplied ready for use. • In a liquid state the product and the thinner contaminate water and should not come into contact with it. • During application in closed rooms, adequate ventilation should be provided. • Underneath Sikagard-680S additional water repellent protection is achieved by using Sikagard-700S where there are pores, cavities, cracks (up to approx. 0.2mm width). Protection is also provided if cracks occur later. Overcoating with Sikagard-680S should not be left more than 1 week.
Handling Precautions	<ul style="list-style-type: none"> • Avoid contact with the skin. • Protective gloves and clothing are recommended when using this product. • A full Material Safety Data Sheet is available from Sika Australia Pty Ltd.
Important Notification	<p>The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.</p> <p>PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.</p>

