

PRODUCT DATA SHEET

Sikagard®-730 Concrete Protect Plus

CONCRETE AND MASONRY WATER REPELLING IMPREGNATION IN CREAM CONSISTENCY



DESCRIPTION

Sikagard®-730 Concrete Protect Plus is an aqueous, solvent based, ready-to-use, cream consistency, hydrophobic impregnation based on a mixture of silane and siloxane materials. Sikagard®-730 Concrete Protect Plus is a high performance water repelling impregnation for the protective treatment of masonry, natural stone, concrete building and other mineral structures.

Sikagard®-730 Concrete Protect Plus is CE marked as an hydrophobic impregnation complying with EN 1504-2 (Penetration depth class I).

USES

Sikagard®-730 Concrete Protect Plus is typically used for the protection of building facades or other structures such as wall build with masonry bricks, and both artificial or natural stone, particularly lime-sandstone and sandstone.

Sikagard®-730 Concrete Protect Plus is also used to protect low rise fair face concrete building made with a not too dense concrete.

- Suitable for protection against ingress (Principle 1, method 1.1 of EN 1504-9)
- Suitable for moisture control (Principle 2, method 2.1 of EN 1504-9)

- Suitable for increasing the resistivity (Principle 8, method 8.1 of EN 1504-9)

CHARACTERISTICS / ADVANTAGES

- Easy to apply
- Suitable for most types of building materials
- CE marked
- One coat application
- Fast absorption and penetration
- Deep penetration depth
- Does not change the appearance of the substrate
- Good surface water-beading effect
- High water penetration resistance
- Long term protection
- Can be overcoated with organic coatings.

APPROVALS / CERTIFICATES

- Tested and approved by the National Scientific and Construction Testing Institute of Belgium (CSTC – Centre Scientifique et Technique de la Construction).
- Hydrophobic impregnation for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 62898200, certified by notified factory production control certification body 0921, certificate of conformity of the factory production control 0921-CPR-2050, and provided with the CE marking.

PRODUCT INFORMATION

Chemical base	Silane/siloxane blend
Packaging	18 kg pail and 180 kg drum
Appearance / Colour	White to yellowish cream
Shelf life	12 months from date of production if stored properly in original unopened, sealed and undamaged packaging.
Storage conditions	Store in cool and dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight.

Density	~0.85kg/l at 20°C	
Flash Point	75°C	(ISO 2592)
Active Content	~25%	
Resistance to Alkalinity	<10%	(EN 13580)
Penetration Depth	Class I: < 10 mm Test performed on concrete with a W/C = 0.70	
Water Absorption	< 7.5%	(EN 13580)
Drying Rate Coefficient	Class II: > 10%	(Standard)

APPLICATION INFORMATION

Consumption	Generally ~200 g/m ² in 1 application In certain situation, a second application may be required. Trial applications are recommended to determine the consumption required as this will be dependent on the nature of the substrate (profile and porosity / permeability etc.).	
Ambient Air Temperature	+5°C min. / +40°C max.	
Dew Point	Care shall be taken that application is carried out at a temperature at least 3°C above dew point conditions.	
Substrate Temperature	+5°C min. / +40°C max.	
Substrate Moisture Content	The substrate shall look dry with no damp patches (surface moisture content when measured with Tramex meter shall not exceed 5-6%). Best results are obtained with application performed on dry and very absorbent substrates.	
Waiting Time / Overcoating	Can be over-coated with both water and solvent based polymer coatings when required - Please, contact the respective coating system manufacturer for details and confirmation of suitability. For over-coating with Sikagard®, SikaColor® Emulsion or any other Sika solvent based coatings, wait at least 5 hours after the application of Sikagard®-730 Concrete Protect Plus.	
Curing Treatment	Sikagard®-730 Concrete Protect Plus does not require any special curing but must be protected from rain for at least 3 to 4 hours at +20°C.	

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Cleaning shall be done by light blast cleaning, steam cleaning, low pressure water jet cleaning (less than 18 MPa - 180 bars), grinding, etc. No surface tension reducing / active cleaning products / detergent blends must be used in this process.

Best results are obtained on dry, very absorbent substrates; therefore, allow sufficient time for the substrate to dry out after surface cleaning & preparation. New brick structures shall be cleaned with acid cleaner remove cement laitance, then rinse thoroughly with clean water – follow the recommendations given on the Material Safety Data Sheet of the manufacturer during the acid cleaning.

MIXING

Sikagard®-730 Concrete Protect Plus is supplied ready for use and must not be diluted or mixed as this could break down the emulsion and thixotropic properties of the product.

APPLICATION

For large areas, the best method of application is by airless spray or automatic feed long haired roller in a single operation. For smaller areas, Sikagard®-730 Concrete Protect Plus can also be applied by brush or long-haired/ long-piled roller.

Please refer to the Sikagard®-730 Concrete Protect Plus Method Statement, which is available as a separate document, for more specific information and details.

If a second coat is required (special cases), allow the substrate to dry out thoroughly after the first application.

CLEANING OF TOOLS

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

LIMITATIONS

- Cement based substrates must be at least seven days old.
- Protect glass surfaces and aluminium frames or apply carefully with roller or brush near the sensitive surface as to prevent possibility of surface damage /staining.
- Test on a sample surface before full application in order to check the final aspect as depending the absorbency and the nature of the substrate, some slight colour changes may occur.
- Cannot be overcoated with limewash or cementitious coatings (without additional preparation).
- On all substrates, the optimum water repellent capability is achieved after a few days.
- On natural limestone (and marble), check the performance as due to the nature of the stone, the water repellency may be reduced.
- Refer to the separate Method Statement for more information and application details / procedure.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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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