

PRODUCT DATA SHEET

Sikagard®-730 Concrete Protect Plus

Concrete and masonry water repelling impregnation in cream consistency

PRODUCT 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 limestone 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. As it is functional even under pressure (temporarily), it is ideal for flood defence walls.

- 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.
- Unlike other hydrophobic impregnations, Sikagard®-730 Concrete Protect Plus will repel water under pressure for a period of time (although not suitable for permanent submergence), making it ideal for flood defences.

APPROVALS / STANDARDS

- 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
Active content	~25 %
Packaging	18 kg pail
Shelf Life	12 months from date of production if stored properly in original un-

opened, sealed and undamaged packaging.

Storage Conditions	Store in cool and dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight.
Appearance / Colour	White to yellowish cream
Density	~0.85 at 20 °C
Flash Point	75 °C (ISO 2592)

TECHNICAL INFORMATION

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 % (EN 13579)
Resistance to Alkalinity	< 10% (EN 13580)

APPLICATION INFORMATION

Consumption	Generally ~200 g/m ² in 1 application. In certain situations 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 minimum / +40 °C maximum
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 minimum / +40 °C maximum
Substrate Moisture Content	The substrate shall look dry with no damp patches (surface moisture content when measured with Tramex meter shall not exceed 5 to 6 %). Best results are obtained with application performed on dry and very absorbent substrates.
Waiting Time / Overcoating	Can be overcoated with both water and solvent based polymer coatings when required. Always contact the coating system manufacturer for details and confirmation of suitability. For overcoating 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.

VALUE BASE

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.

LIMITATIONS

- Cement based substrates must be at least 7 days old.
- Protect glass surfaces and aluminium frames, or apply carefully with roller or brush near sensitive surfaces, 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 - contact Sika® Technical Services if necessary).

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- 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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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 and preparation.

New brick structures shall be cleaned with suitable cement remover (such as Sikagard®-110 Cement Cleaner Plus) to remove cement laitance, then rinse thoroughly with clean water – follow the recommendations given on the Safety Data Sheet when using the cleaner.

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 (in special cases), allow the substrate to dry out thoroughly after the first application.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

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.

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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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