

SYSTEM DATA SHEET

Sikagard®-7000 CR

Highly chemical resistant, crack-bridging system based on Xolutec® for protection of concrete water infrastructure in harsh conditions.

DESCRIPTION

Sikagard® -7000 CR is a concrete protection system based on Xolutec® technology and designed for the protection of water infrastructures exposed to chemical attack and/or biogenic sulfuric acid deterioration.



Xolutec is an innovative and smart way of combining complementary chemistries. When the material is mixed on site a cross linked interpenetrating network (XPN) is formed enhancing the overall material properties. By controlling the cross-linking density, the properties of Xolutec can be adjusted depending on the product performance required, e.g. this allows the formulation of materials with varying degrees of toughness and flexibility. Xolutec is very low in volatile organic components (VOC), is quick and easy to apply with both spray and hand application depending on requirements. It cures rapidly even at low temperature, reducing application time thus enabling fast return to service and minimizing downtime. This technology is not sensitive to moisture and tolerates a wide variety of different site conditions, greatly expanding the application window and reducing the potential for delays and failures. Long maintenance cycles and lower life cycle costs significantly reduce total cost of ownership.

USES

For concrete protection in:

- Sewers
- Lift stations, inlet chambers
- Primary and secondary treatment tanks in waste water treatment plants
- Sludge treatment tanks, biogas tanks
- Water treatment of process water in industry (chemical, food and beverage, pharmaceutical, ...)
- Secondary containment of chemical tanks in industrial environments

Note: Sikagard® -7000 CR may only be used by experienced and trained professionals.

FEATURES

- High resistance to a wide range of chemicals including organic acids, solvents and biogenic sulfuric acid
- Crack bridging – up to 0.5 mm
- Moisture tolerant during application
- Fast curing to allow fast system installation
- Solvent free, low VOC emissions and low odour

CERTIFICATES AND TEST REPORTS

- CE Certification according to EN 1504-2
- Biogenic sulfuric acid corrosion resistance of Sikagard®-7000 CR, Fraunhofer, Test Report No. 20241010A
- Chemical Resistance according to EN 13529
- Bond Strength and blistering if exposed to reverse moisture according to DAfStb Repair Guideline
- DIBt-Approval for use in concrete in biogas facilities, tanks, bunker silos and for containment areas in storage and filling of liquid manure and silage (JGS)
- Determination of methane permeability (7000 CR Methandurchlässigkeit, Fachlaboratorium für Permeationsprüfung Wiebaden)

- Reaction to fire EN 13501-1, Sikagard® P 770 + Sikagard® M 790, GHENT, Test Report No. CR 24-0756-01

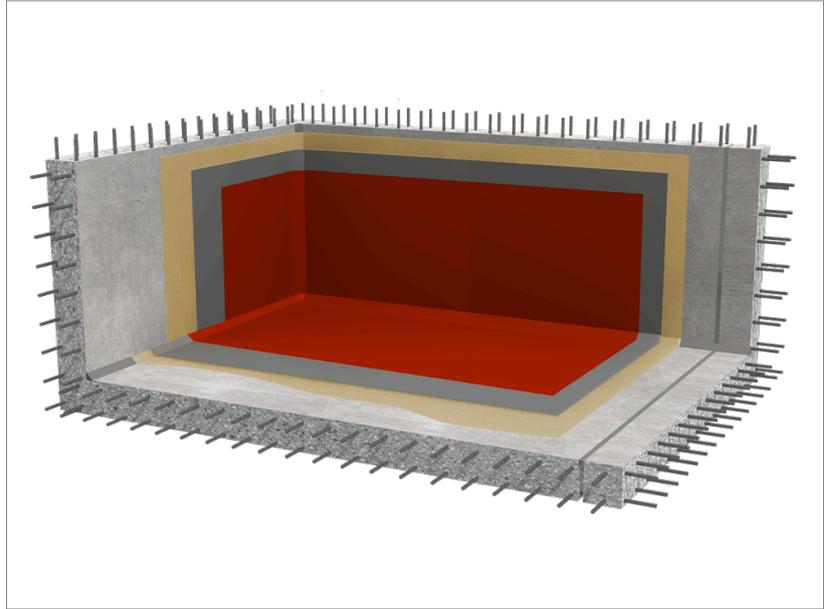
PRODUCT INFORMATION

Packaging	Please refer to the product data sheets of the system components.
Shelf life	Please refer to the product data sheets and the information given on the packaging of the system components.
Storage conditions	Please refer to the product data sheets of the system components.

SYSTEM INFORMATION

System structure

Sikagard®-7000 CR



Primer	Thickness	Consumption
Sikagard® P 770 or P 770 N: 1 coat on smooth substrates with low absorption	~0.2 mm	0.2 to 0.3 kg/m ²
Alternative - Sikagard® P 770 or P 770 N : 2 coats on slightly irregular, absorbing substrates	~0.3 mm	1st coat: 0.2 to 0.3 kg/m ² + 2nd coat: ~0.2 kg/m ²
Optional - Sikagard® P 770 scatchcoat: Sikagard P 770 or P 770 N mixed 1:1 with fine silica sand (0.1 - 0.3 mm) and Sika® Extender T (1% on total weight of mix); for irregular, rough substrates or filling of pinholes	0.4 to 0.7 mm	0.8 to 1.2 kg/m ²

Membrane (hand application)	Thickness	Consumption
Sikagard® M 790 1st coat, recommended colour: grey	~0.4 mm	0.4 to 0.5 kg/m ²
Sikagard® M 790 2nd coat, recommended colour: red	~0.4 mm	0.4 to 0.5 kg/m ²
Optional (in case of very high chemical and mechanical impact): Sikagard® M 790 3rd coat, recommended colour: red	~0.4 mm	0.4 to 0.5 kg/m ²
Membrane (spray application)	Thickness	Consumption
Sikagard® M 790, recommended colour: red	0.8 to 1.0 mm	0.8 to 1.2 kg/m ²

Please refer to Sikagard®-7000 CR application manual for further details.

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

For professional use only!

Please refer to the relevant Product Data Sheets and the Sikagard®-7000 CR Application Manual for safe installations.

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.

LOCAL RESTRICTIONS

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

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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