

SYSTEM DATA SHEET

Sikagard®-7000 CR

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

PRODUCT 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.

CHARACTERISTICS / ADVANTAGES

- High resistance to a wide range of chemicals including organic acids, solvents and biogenic sulfuric acid
- Crack-bridging (static): 0.5 mm at +23°C
- Moisture tolerant during application
- Fast curing to allow fast system installation
- Solvent free, low VOC emissions and low odour

APPROVALS / STANDARDS

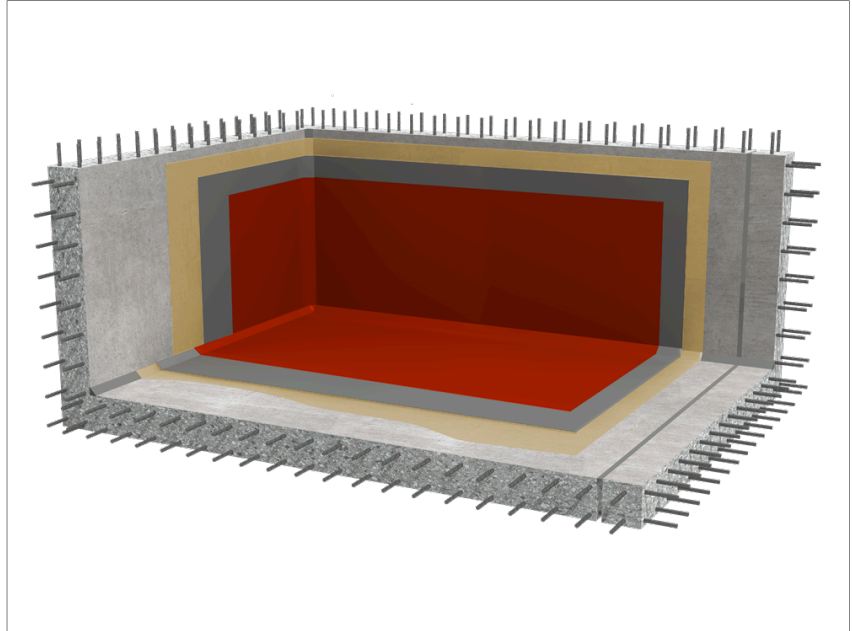
- CE Certification according to EN 1504-2
- Biogenic sulfuric acid corrosion resistance of Sikagard®-7000 CR, Fraunhofer, Test Report No. 20241010A
- Chemical Resistance according to EN 13529
- Bond Strength and blistering if exposed to reverse moisture according to DAfStb Repair Guideline
- DIBt-Approval 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)

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 and the information given on the packaging of the system components.

SYSTEM INFORMATION

System Structure



Primer	Thickness	Consumption
Sikagard® 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 (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 (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

* red in case of 3 coats of Sikagard® M 790
** grey in case of 3 coats of Sikagard® M 790

Membrane (spray application)	Thickness	Consumption
Sikagard® M 790, recommended colour: red	From 0.8 mm (normal conditions, possible in one coat) up to 1.2 mm (harsh conditions, 2 coat application)	0.8 to 1.0 kg/m ² (normal conditions) 1.2 to 1.4 kg/m ² (harsh conditions)

Please refer to Sikagard®-7000 CR Application Manual for further details.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

AVAILABILITY/WARRANTY

Detailed Chemical Resistance Chart available on request.

LIMITATIONS

For professional use only!

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

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

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