BUILDING TRUST
CONSTRUIRE LA CONFIANCE

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.

WHERE TO USE

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 / CERTIFICATES

- 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

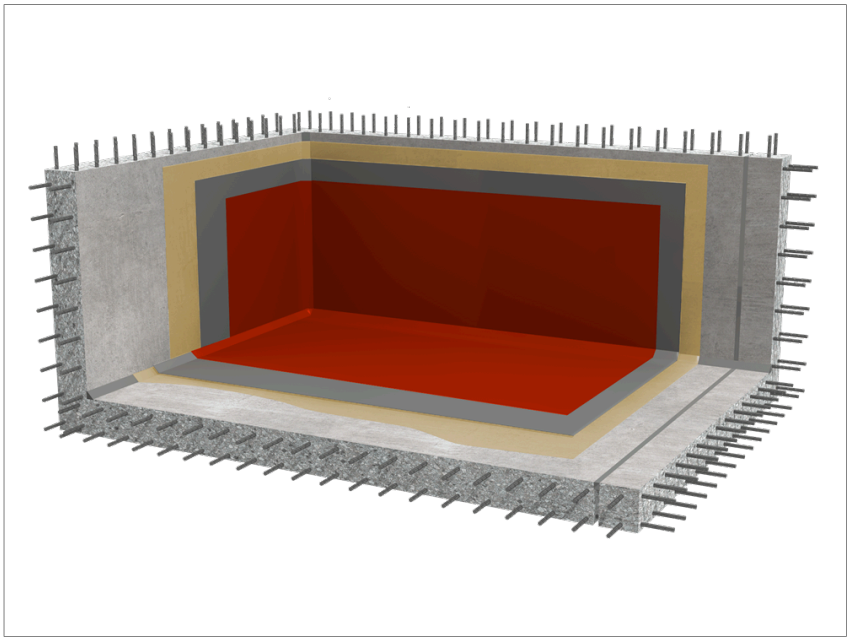
Methandurchlässigkeit, Fachlaboratorium für Permeationsprüfung Wiebaden)
- Reaction to fire EN 13501-1, Sikagard® P 770 + Sikagard® M 790, GHENT, Test Report No. CR 24-0756-01

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

SYSTEMS

System Structure



Primer	Thickness	Consumption
Sikagard® P 770 (N): 1 coat on smooth substrates with low absorption	~8 mils (~0.2 mm)	4 to 6 m²/L (167 to 244 ft²/US gal.)
Alternative - Sikagard® P 770 (N): 2 coats on slightly irregular, absorbing substrates	~12 mils (~0.3 mm)	1st coat: 4 to 6 m²/L (167 to 244 ft²/US gal.) 2nd coat: ~6 m²/L (~244 ft²/US gal.)
Optional - Sikagard® P 770 scatchcoat: Sikagard P 770 (N) mixed 1:1 with fine silica sand (mesh #70) and Sika® Extender T (1% on total weight of mix); for irregular, rough substrates or filling of pinholes	16-28 mils (0.4 to 0.7 mm)	1 to 1.5 m²/L (41 to 61 ft²/US gal.)

Membrane (hand application)	Thickness	Consumption
Sikagard® M 790 1st coat, recommended colour: grey*	~16 mils (~0.4 mm)	2.4 to 3 m²/L (98 to 122 ft²/US gal.)
Sikagard® M 790 2nd coat, recommended colour: red**	~16 mils (~0.4 mm)	2.4 to 3 m²/L (98 to 122 ft²/US gal.)
Optional (in case of very high chemical and mechanical impact): Sikagard® M 790 3rd coat, recommended colour: red	~16 mils (~0.4 mm)	2.4 to 3 m²/L (98 to 122 ft²/US gal.)

* 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 32 mils (0.8 mm) (normal conditions, possible in one coat) up to 48 mils (1.2 mm) (harsh conditions, 2-coat application)	Normal conditions: 1.2 to 1.5 m²/L (49 to 68 ft²/US gal.) Harsh conditions: 0.86 to 1 m²/L (35 to 41 ft²/US gal.)

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

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

FURTHER INFORMATION

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.

ENVIRONMENT, HEALTH & 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

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