

solidian•keltteks



solidian **ANTICRACK**

specialy designed
reinforcement for a
superior bonding behavior

solidian-keltteks.com



CERTIFIED
ISO 9001
ISO 14001





Corrosion free & guaranteed durability of 100 years

solidian ANTICRACK

is a further development of our reinforcement **solidian** GRID, which functions specifically as crack eliminating reinforcement. The textile, non-metallic carbon reinforcement can be laid close to the surface and thus has a particularly positive influence on crack width and formation in concrete elements.

solidian ANTICRACK is charged with specially designed grip which achieves an even better bonding behaviour with the concrete.

solidian ANTICRACK reinforcements are an economically interesting alternative to conventional solutions, like surface protection systems, for dealing with cracks in concrete. Our hi-tech reinforcements inside concrete are the building materials of the future.

product portfolio

- **solidian** ANTICRACK Q43-CCE-21
- **solidian** ANTICRACK Q47-CCE-38
- **solidian** ANTICRACK Q85-CCE-21



characteristics



Thinner, more filigree concrete components



Sophisticated, shaped concrete components



Lightweight and easy to install



more tensile strength than steel



Economically and ecologically sustainable



Enormous design freedom for architects



More economical due to reduced consumption of materials



less concrete less weight less resources



Corrosion free, chloride and media resistant



Durable and long service life

dimensions

Standard dimensions:

- 6,0 m x 2,3 m

Individual dimensions:

- max. 8,0 m x 3,0 m possible on request

Individual shapes:

- possible on request

sustainability

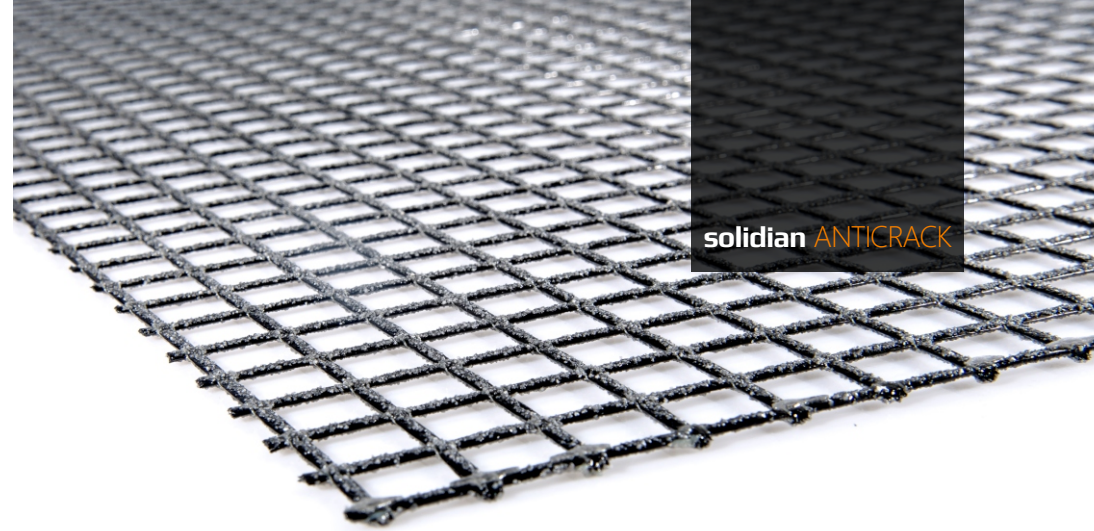
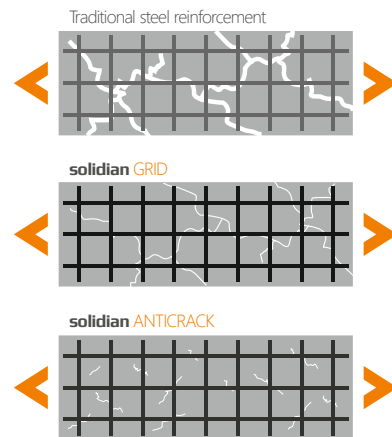
In concrete with non-metallic reinforcement, the usual steel reinforcement is replaced by carbon or glass fiber grid structures. These do not corrode, which is why the concrete cover can be lower, making the concrete components significantly lighter and thinner.

In this way, up to **50%** of resources (cement, sand, water) and up to **30%** of CO₂ emissions can be saved. This represents a great potential for better management of our resources and helps us build more climate neutral for upcoming generations.

Due to its properties, **solidian ANTICRACK** can be used particularly well in the maintenance and structural upgrading of existing buildings. This way, buildings can be preserved and their life cycle significantly extended. The use of reinforcement is also worthwhile in new buildings. Here is essential that the complete life cycle is considered and used as a basis for the calculation.

The use of non-metallic reinforcement is particularly useful when the reinforcement can show its advantages. In the case of repairs or the structural strengthening of concrete elements to protect the structure from further damage, the **solidian ANTICRACK** can score points.

Crack widths can be limited and the new concrete layer applied can be kept very thin. This saves weight and space, which can be extremely relevant, for example, with regard to the static load and clearance height in a parking garage. **solidian ANTICRACK** is also perfectly suitable for sealing.



solidian ANTICRACK

Specially designed for a superior bonding behavior

Textile carbon reinforcements require only a small concrete cover of a few millimeters. As a result, they can be laid close to the surface and are particularly effective in preventing crack widths. **solidian ANTICRACK** exploits this advantage to the maximum and also offers even higher safety against surface spalling. The load transfer is significantly improved, and the crack widths can be kept to a minimum so that no water can get inside.

applications



Bridge construction



Tunnel & mining constructions



Maritime applications



Concrete slabs



Precast elements (e.g. Façade panels)



Parking decks & garages



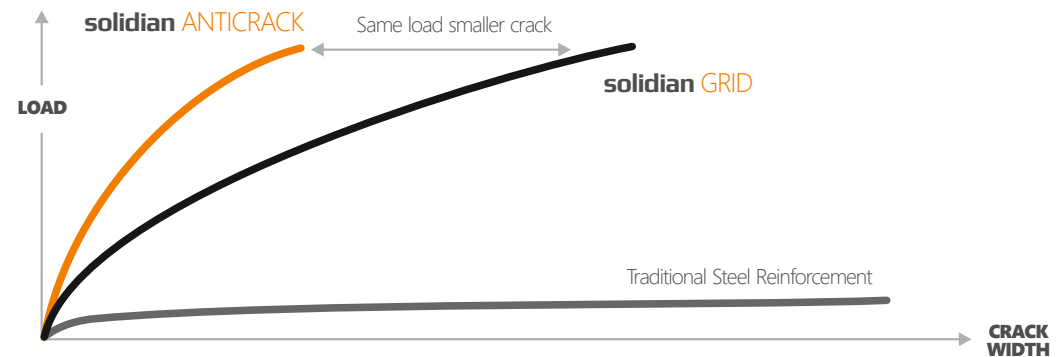
Exterior Concrete Elements



Repair of the Concrete Structures

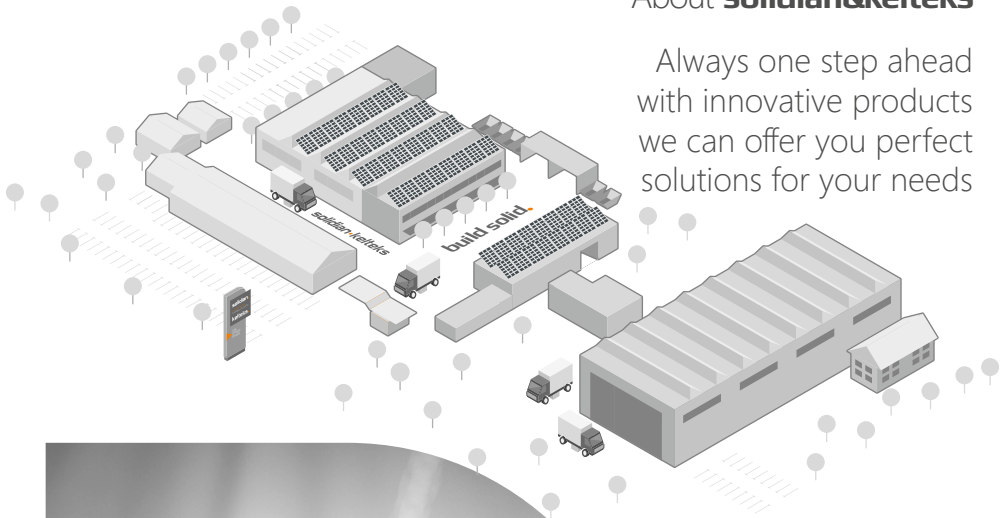


Structural Strengthening



About **solidian&keltteks**

Always one step ahead with innovative products we can offer you perfect solutions for your needs



solidian&keltteks has made a name for itself as a leading company that provides a wide range of solutions to improve construction structure.

We made a commitment to clients to provide them with customer service, technical support and being the leader in providing global innovative fiber material solutions. We use advanced technologies to produce special solutions according to your needs. Our functional grids are used to optimize product and processing properties in a wide variety of applications – including concretes, UHPC, cement-based mortars, adhesives, and dry-mix compounds.

build solid.



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ISO 14001



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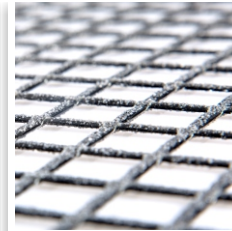
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Other Products

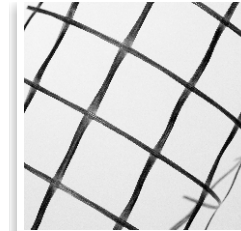


check out our website for more products and innovative solutions



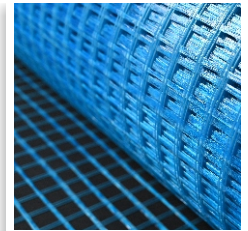
solidian Anticrack

is a further development of our reinforcement solidian GRID, which functions specifically as crack-eliminating reinforcement. The carbon reinforcement can be laid close to the surface and thus has a particularly positive influence on crack formation in concrete components. CE marking is made per EAD 260057-00-0303 Inorganic fibre grids for reinforcement of cement-, anhydrite- or resin-based screeds.



solidian FLEX GRID

Advanced production technology allows us to fulfill special market demands for both rigid and flexible reinforcements, according to application or customer needs. Hi-tech flexible reinforcements made of Carbon, Basalt or Glass.



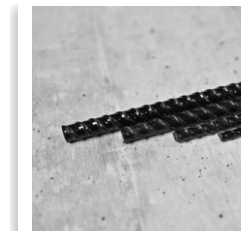
solidian ANTISEISMIC Grid

Specially designed for CRM system. solidian ANTISEISMIC Grid is a non-corrosive, high-strength, lightweight, alkali-resistant glass fiber mesh developed for the reinforcement of existing and new masonry and concrete structures subject to static and dynamic loading.



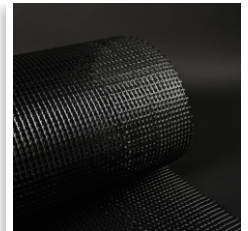
solidian Briksy C E

High-tech, non-Corrosive, AR glass or Carbon fiber reinforcement brick mesh on a roll for efficient crack control specially designed for any wall width. **solidian Briksy Carbon** has a CE marking made per EAD 260057-00-0303 Inorganic fibre grids for reinforcement of cement-, anhydrite- or resin-based screeds



solidian REBAR

The rod-shaped reinforcement solidian REBAR is combining high-strength fibers with extreme resistant resins. solidian REBAR is the right choice where ever high loads occur and components are permanently exposed to aggressive environmental influences.



solidian eGRID

Specially developed flexible grids in combination with electro conductive coatings provide high tensile strength and outstanding electro conductive properties. **solidian eGRID** is now also available with different conductive surface treatments for special applications in which electrical conductivity is important.