



Adfil® fibres, Reinforce smarter. Durable by design.



Adfil® fibres

Key applications

Services offer and technical support



Flooring

Adfil® fibres reduce installation costs, improve robustness and provide a perfect finish for flagstones, residential and industrial floors, marine decks and self-levelling screeds.



Precast

Adfil® fibres increase productivity, improve durability and reduce the thickness of various precast elements such as wall panels, landscaping furniture, vaults, manholes, road barriers and retention walls.



Underground constructions

Adfil® fibres increase passive fire resistance and meet Class A, B and C requirements for shotcrete (EFNARC and ASTM standards).



Decorative concrete

Synthetic microfibers help protect fresh concrete against segregation and shrinkage-induced cracking. Natural fibers improve the concrete's hydration process and enhance color and surface finish.

FIBRE-REINFORCED CONCRETE FULL TECHNICAL SUPPORT

Chryso and Adfil technical teams have all the know-how and equipments needed to carry out custom studies

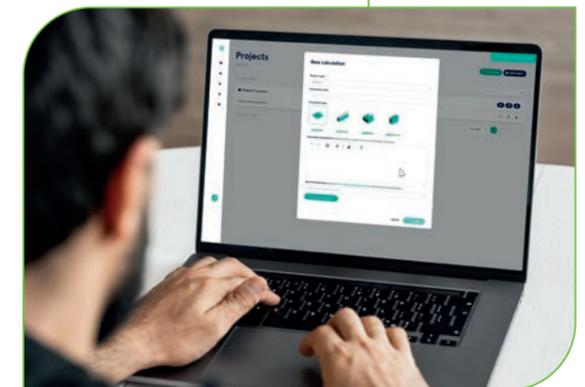
- Complete design of fibre reinforced concrete mix and total cost of ownership optimization
- Dedicated lab for concrete fiber testing in Belgium, France, Portugal and in the US allowing to provide the best technical support
- Choice of Adfil® product most adapted to your project specifications



STRUCTURAL DESIGN SERVICES

Based on our highly-qualified engineers and our best-in-class Greenstruct software:

- Helps define the optimized fibre dosage, reduce project costs and, in combination with our EPDs, enables our customers to measure their carbon footprint savings.



Fibres Offer Micro Fibres

2 TYPES OF MICROFIBRE

Synthetic MICROFIBRES

Based on polypropylene
and available as:

- **Monofilament fibres**
Adfil®Sinta and Adfil®Ignis
- **Fibrillated fibres**
Adfil®Fibrin

Natural MICROFIBRES

Based on alkali-resistant
cellulose:

Adfil®Lify UF500



KEY BENEFITS

- Proven alternative to steel mesh reinforcement
- Reduces risk of cracks due to plastic shrinkage
- Enhanced impact and abrasion resistance
- Increased freeze/thaw resistance
- Minimizes water permeability of concrete structures

Synthetic MICROFIBRES

- Better crack control thanks to fine diameter
- Available in 3, 6, 12 and 18 mm lengths
- Surface treated to improve initial dispersion in cementitious materials



Adfil®Sinta

Multipurpose monofilament
microfibre



Adfil®Ignis

Monofilament specifically designed
for passive fire protection:

- Explosive spalling prevention
- Significant improvement of the fire
resistance of concrete structures
at a minimum dosage of 1.34 kg/m³.



Adfil®Fibrin

Fibrillated microfibre specifically
designed for mixes containing
fine aggregates

(e.g. mortars...), renders, plasters,
screeds, shotcrete, repair materials or
precast concretes)

Natural MICROFIBRES

Adfil®Lify UF500

Enhanced environmental impact with a
carbon footprint about 15 times lower than
synthetic microfibres.

- An interesting alternative to 6 and 12 mm fibers
polypropylene-based microfibers falling within
the scope of the REACH regulation on microplastics
- High-performance fibres offering resistance to
shrinkage cracking similar to synthetic microfibres,
at a dosage of 300 g/m³ compared to 600 g/m³
- Specially designed for decorative and coloured
concrete, it offers a superior finish
- Certified "readily biodegradable" according
to OECD 301F standard



Fibres Offer Macro Synthetic

Based on 3 different types of synthetic macrofibres to address challenges raised by key segments such as Flooring, Precast and Shotcrete.

High performance and packaging in pucks (=better dispersion and reduced risk of fibre balling).

Synthetic MACROFIBRES



Adfil® Strux

Embossed synthetic macrofibre particularly suitable for a variety of applications, such as flagstones, industrial floors, self-levelling screeds and prefabricated elements.

- Available in 32 and 40 mm lengths
- CE-marked high-performance fiber of 2.4 and 2.5 kg/m³ for 32 and 40 mm lengths respectively
- Excellent floor finish / easy to pump
- Structural design available with Greenstruct software



Adfil® Durus EasyFinish

Embossed rigid synthetic macrofibre particularly designed for flooring and precast applications.

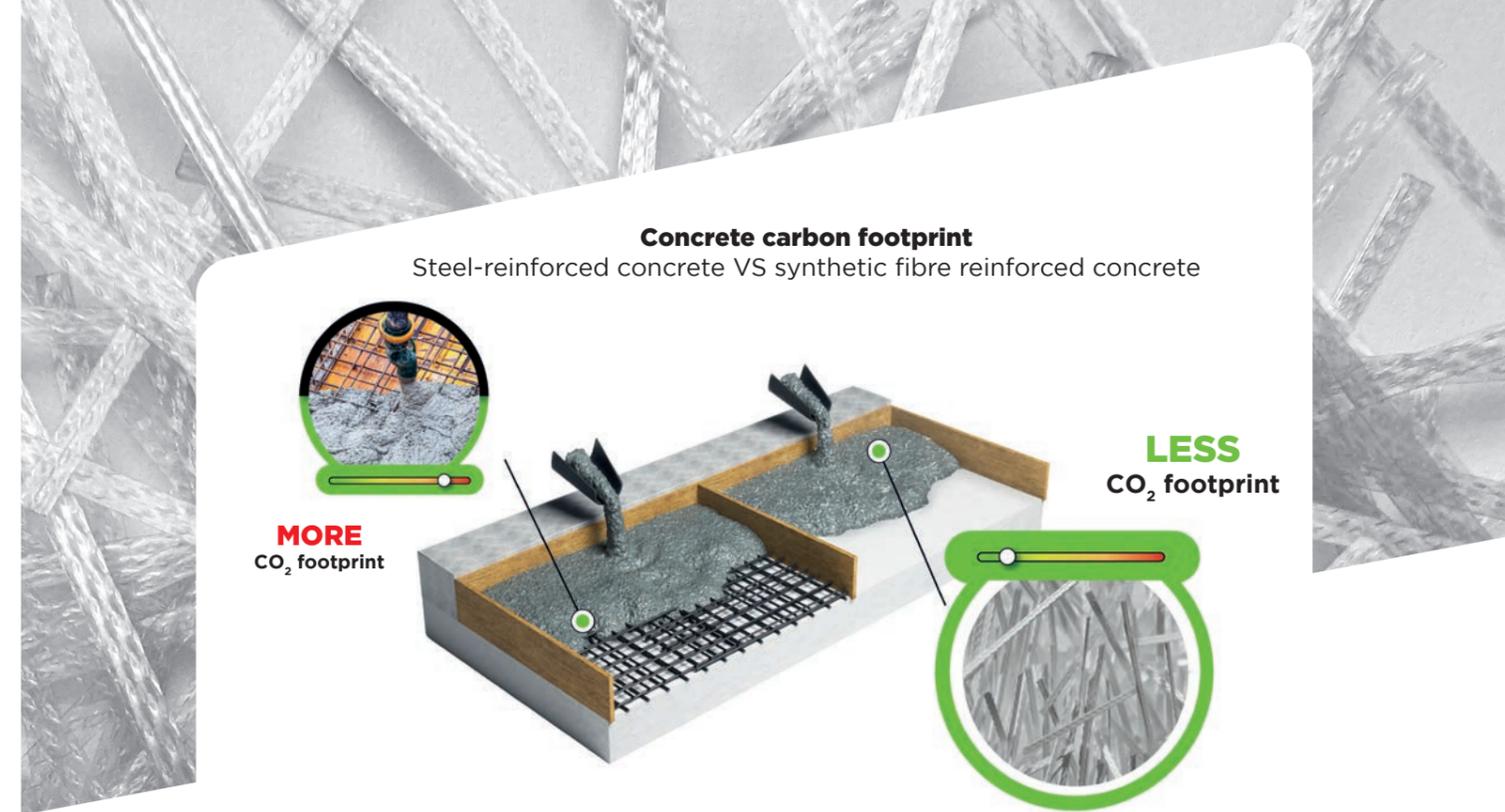
- High performance: 2.5kg/m³ to meet CE label requirements
- Structural design available with Greenstruct software



Adfil® Durus EasyShot 50

Patented embossed rigid synthetic macrofibre specifically designed for sprayed concrete applications in tunnels and mines.

- High-performance energy absorption and low cost per joule: with a dosage of 4 kg/m³, average values in excess of 800 joules are obtained in EN 12288-5 plate tests.
- Reduced rebound during spraying
- Reduced wear and tear on pumping equipment and supply lines



+ KEY BENEFITS

- Lower project costs thanks to faster turnaround and reduced labour costs
- Improved durability, since no risk of corrosion
- Reduced safety risks, as no wire mesh is handled
- Significantly reduced carbon footprint compared to wire mesh and steel fibers
- Puck packaging guarantees perfect dispersion in concrete (no balling effect)



Visit the webpage



CHRYSO - Head Office
Tour Saint-Gobain • 12 Place de l'Iris
92400 Courbevoie • France
contact@chryso.com
www.chryso.com