

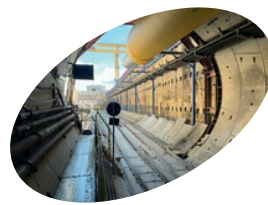
Adfil® Fibre Concrete Applications



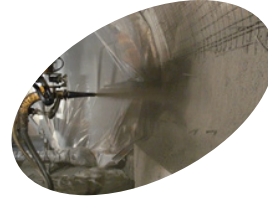
Industrial Flooring



Precast



Tunneling



Shotcrete & Pools



Foundations



Agricultural sector



Passive Fire Protection



Walls

We want to see our customers WIN

Empowering sustainability



We are ready for **NET ZERO 2050** with **EPD certification**. Using our Adfil® fibres in replacement of crack control steel mesh, projects can reduce **60% to 90%** of CO₂ emissions.

Thinking of Tomorrow



R & D is not a side project, it's the **main game**. We continually work to innovate better, safer, cheaper and greener fibres. Through Adfil's **in-house concrete lab** and continuous **patent acquisitions**, we are at the forefront of a changing industry.

Professional Indemnity



PPCD is a Danish **engineering consultancy company**, designing concrete solutions using our fibres, always aiming for **easier** and **better** structural concrete answers. Contact us to get a **PI insured** suggested fibre dosage for your design.



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Adfil® Fibre Reinforced Concrete Range

High Performance and Innovative
Low Carbon Solution
Work Safe Save Time
Save Cost



Adfil® Fibre reinforced concrete

Fibres are an excellent additive for concrete to improve **plastic and hardened concrete properties**. Micro fibres can help control **plastic shrinkage and settlement cracking**. It can also be used in **passive fire protection**. Macro fibres can **reduce or even replace steel reinforcement**, and control **drying shrinkage cracking**. Macro fibres further improve **energy absorption**, overall **toughness** and **durability**. The benefits of **reducing carbon footprint on projects** is key as the world works towards a NET ZERO Climate.

Micro Fibres



<0.3mm in diameter
Monofilament micro fibres are single strand fibres. Fibrillated micro fibres are deformed or irregular in shape, offering better anchoring and bonding

- Plastic shrinkage ↓
- Control Concrete Bleed ↓
- Impact resistance ↑
- Abrasion resistance ↑
- Permeability ↓
- Chemical resistance ↑
- Explosive Spalling resistance ↑
- Freeze & thaw resistance ↑

Macro Fibres



>0.3mm in diameter
Macro fibres are especially used for their benefits in hardened concrete and can be considered for structural reinforcement. Each of our Adfil® macro fibres has unique properties. They are developed and tailor made to different applications

- Structural reinforcement ↑
- Impact resistance ↑
- Ductility ↑
- Corrosion and Chemical resistance ↑
- Energy absorption ↑

Benefits of Adfil® Fibre solutions

Plastic Shrinkage Crack Control



Micro fibres efficiently control the risk for plastic shrinkage induced cracking.

Time Saving vs Traditional Reinforcement



Fibres eliminate the need for cutting and placement of steel reinforcement. Mixed directly into the concrete, they reduce labour and speed up the project timeline.

Durability Improvement



Superior durability results at a lower macro fibre dosages per m³

CO₂ Optimisation



Adfil® Fibres can reduce the project's carbon footprint. Contact us for your project's personalised report.

Adfil® Fibre Selector



Looking for a different size?
Contact us for the extended range of fibres we have to offer!

 Looking for a different size? Contact us for the extended range of fibres we have to offer!	Adfil® Fibre Range							
	MICRO SYNTHETIC				MACRO SYNTHETIC			MACRO/MICRO
	Adfil®Syntec 12	Adfil®Sinta M1819	Adfil®Ignis 1706	Adfil®Sinta F51	Adfi®Durus EasyFinish	Adfil®Strux 9040	Adfil®Durus EasyShot 50	Adfil®Sinta Duo 4818
PHYSICAL PROPERTIES								
Type	Micro Monofilament	Micro Monofilament	Mirco Monofilament	Micro Fibrillated	Macro Monofilament	Monofilament Tape-Style	Macro Monofilament	Macro & Micro Blend
Equivalent Diameter (mm)	0.028	0.030	0.017	0.035	0.7	0.43	0.8	0.78
Length (mm)	12	19	6	51	40	40	50	48 & 18
Tensile Strength (MPa)	≥300	≥500	≥434	≥500	≥500	≥650	≥600	≥600
Elastic Modulus (GPa)	-	-	-	≥3.5	≥6	≥8.5	≥7.4	≥11
Packaging (kg)	0.6 - 0.9	0.6 - 0.9	1	0.9	3	2.3	3	2.3
USAGE								
Early age concrete plastic shrinkage crack control	●	●		●	●			●
Passive Fire Protection / Explosive Spalling Resistant	●		●					
Increased ductility and replacement of crack control mesh					●	●	●	●
Increased energy absorption							●	
Cohesion, impact & abrasion resistance, non-corrosive	●	●	●	●	●	●	●	●
Uniform dispersion, pumpability, ease to finish	●	●	●	●	●	●	●	●
CONCRETE APPLICATION								
External Slabs	Footpaths, Driveways, Cycleways, Parking, Roads	●	●			●	●	●
Internal Slabs	Industrial & Ground Supported Slabs	●	●			●	●	●
	Suspended Slabs	●	●					
	Jointless Floors	●	●					
	Overlays & Toppings	●	●			●	●	●
Walls	Permanent formwork systems	●	●			●		
	Tilt-up Walls	●	●			●		
Sprayed Concrete	Tunnelling & Mining	●	●	●			●	
	Slope Stabilisation	●	●				●	
Precast	Vaults, Pipes, Manholes	●	●			●	●	
	Tunnel Linings	●	●	●		●	●	
	Tanks & Containers	●	●		●	●	●	●
Miscellaneous	Swimming Pools	●	●				●	●
	Blast Resistant Concrete	●	●	●		●		
	Prefabricated metal formwork	●	●					
	Roundabouts	●	●		●	●	●	●
	Extruded Concrete, Kerbs, Slipform	●	●		●	●	●	●
	Polished Finish	●	●				●	
FOR MACRO DOSAGE - CONTACT US								
Approvals								
CE Regulation (EN 14889-2:2006)	●		●		●	●	●	●