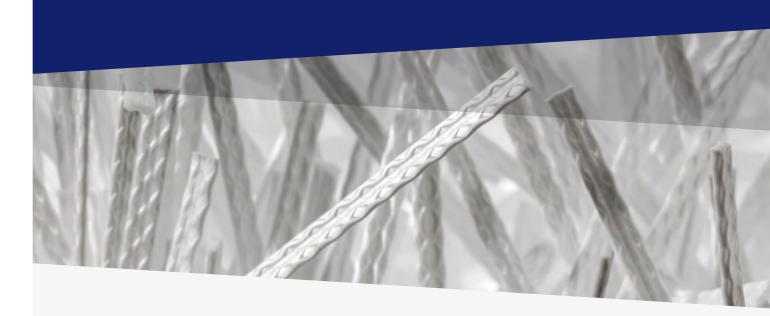


DURUS® S500

NEXT GENERATION MACRO SYNTHETIC FIBRE



Engineered to replace steel mesh or steel fibres in precast and sprayed concrete, ground supported internal slabs and external hard standings, Durus \$500 is the latest addition to the Adfil range of embossed macro synthetic fibres. Thanks to a unique fibre shape and state-of-the-art extrusion technology applied in the manufacture of Durus \$500, this fibre is outperforming its alternatives.

Why choose Durus \$500?

Durus \$500 is the result of extensive in-house research & development and in-depth performance testing by independent laboratories. This fibre is raising the bar for fibre bond within the concrete matrix:

- Greater E-modulus per fibre
- More fibres per m³ due to smaller fibre diameter
- Maximum bond within concrete thanks to innovative fibre design
- Creates enhanced residual flexural strength and toughness in the concrete

As with all Adfil concrete reinforcement fibres, Durus \$500 comes with full technical advice and design support from the experienced Adfil design team.

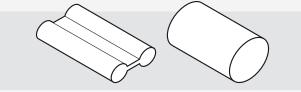
Advantages & Benefits

The benefits which macro synthetic fibres bring to construction sites around the world are numerous. Examples include:

- Easy to transport, store and handle
- Improved safety on site
- Increased speed of construction
- High alkali, acid and salt resistance
- · Chemically inert and stable
- Easy to finish
- Reduced carbon footprint by over 50%



Fig.1 / Durus \$500 vs. conventional fibre

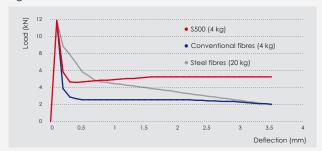


S500 – New shape

Conventional shape

The Adfil R&D team has engineered Durus \$500 into an innovative fibre shape creating an increased specific surface. This design is outperforming conventional round shaped macro synthetic fibres. Another plus is the reduced thickness and enhanced strength of Durus \$500 fibres. This gives a significantly increased fibre count per m³, thus improving the concrete reinforcement, when compared to conventional fibres.

Fig. 2 / **Beam test — EN 14651**



Fibre Length	48 mm or 55 mm
Fibre Type	Macro monofilament
Shape	Embossed elongated design
Absorption	Zero
Specific Gravity	0.905
Electrical Conductivity	Zero
Colour	White
Tensile Strength	500 MPa EN 14889-2
Elastic Modulus	6000 MPa EN 14889-2
Chloride Content	Zero
\$03 Content	Zero

Packaging & Dispersing

Durus \$500 fibres are supplied in pucks wrapped in a water soluble film. Packed into paper bags, they can be added directly into the concrete pan or truck mixer. The dosage rates are dependent on the specific application. Adfil offers flexible packing configurations to suit the dosage and type of concrete plant.

Mixing Directions

The fibre is best dispersed when added to a pan mixer or equivalent, prior to discharging the concrete into a truck. It is suggested that you contact your Adfil representative to discuss the preferred mixing method.

Storage

Durus \$500 must be stored on a clean surface in dry conditions and protected from potential sources of damage.

Quality Assurance

Durus \$500 complies to EN 14889 – 2: 2006 (EC Certificate of Conformity). The Quality Management Systems of Low & Bonar facilities have been approved to the ISO 9001 Quality Management System Standard. Certificates are available on request. Adfil products are manufactured to exacting standards on technologically advanced production and packaging lines allowing constant monitoring of quality.

Adfil. Reinforced concrete reinvented.

Belgium T +32 52 457 413 India T +91 8527625678 United Kingdom T +44 1482 863777 All information and product specifications provided in this document are accurate at the time of publication. We follow a policy of continuous development. The provided information and product specifications may change at any time without notice and must not be relied upon unless expressly confirmed by us upon request. No liability is undertaken for results obtained by usage of the products and information.