



## STEALTH e<sup>3</sup> (Graded Multifilament Fibres)

### BENEFITS

To improve the plastic state properties of concrete by:

- Reducing settlement and bleeding.
- Reducing plastic shrinkage and settlement cracking.
- Increasing cohesion and reducing segregation.

To improve the hardened state properties of concrete by:

- Increasing impact and shatter resistance.
- Increasing abrasion resistance
- Improving resistance to freeze/thaw.
- Increasing resistance to explosive spalling.

### SPECIFICATION

Engineered fibres for concrete shall be STEALTH e3 graded multifilament polypropylene fibres manufactured to ISO 9002 Quality assured standards from pure polypropylene to ISO 1873-PP-H, 28-02-200 supplied by: Synthetic Industries Europe. (Tel: + 44 (0)1246 564200)

Unless otherwise stated, STEALTH e3 multifilament fibres shall be mixed at the batch plant, at the recommended rate of 0.9kg (1 bag) per cubic metre, and mixed for sufficient time (min 5 minutes at full mixing speed, for truck mixed concrete) to ensure uniform distribution of the STEALTH e3 multifilament fibres throughout the concrete mix.

### NOTES

- 1 *STEALTH e3 multifilament fibres may be added to most concrete mixes without any change to the mix design. Any slump loss noted is NOT an indication of a reduction in the concrete workability, it is merely a thixotropic effect caused by the fibres.*
- 2 *Certified tests have shown that concrete containing STEALTH e3 multifilament fibres meet the requirements BS 5075 : Part 2 : 1982.*
- 3 *STEALTH e3 multifilament fibres are chemically inert and therefore unaffected by the addition of admixtures or cement replacements in concrete.*
- 4 *STEALTH e3 multifilament fibres are carried as a stock item by most national and many regional / local concrete suppliers.*
- 5 *The services of a SI Concrete Systems Area Manager is available to Specifiers, Contractors and Concrete Producers on request.*

*Please ensure you have up-to-date information. SI Concrete Systems reserve the right to alter publications, without notification, in the light of continuing research and development.*



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