

STRUX[®] 85/50

Synthetic macro fibre reinforcement

Product Description

STRUX[®]85/50 synthetic macro fibre reinforcement is a unique form of high strength, high modulus synthetic macro reinforcement that is distributed throughout the concrete matrix. It consists of synthetic macro fibres 50mm (2in.) in length that have specifically been designed to ensure ease of use and rapid dispersion in concrete. STRUX[®]85/50 is used in concrete to improve the material properties including toughness (post crack energy absorption), impact and fatigue resistance.

Product Advantages

- Ductility
- Durability
- Crack control
- Energy absorption
- Stain-free concrete surfaces
- Quick, easy and safe application
- Efficient and cost-effective secondary reinforcement alternative

Uses

STRUX[®]85/50 can be used in a variety of ready mix and precast applications including bridge decks, overlays, whitetopping, pipes, vaults, septic tanks, tunnel linings, slope stabilisation, and swimming pools.

Advantages

When added to concrete, the primary benefit of STRUX[®]85/50 is a significant improvement in flexural toughness.

Addition Rates

STRUX[®]85/50 addition rates are dependent on the specific application and desired properties and will typically vary between 1.5 and 8.0kg / m³.

Mix Design and Mixing Requirements

The utilisation of fibres generally requires the use of a superplasticiser such as ADVA[®] to restore the required workability to fibre-reinforced concrete. STRUX[®]85/50 may be added to concrete at any point during the batching or mixing process. STRUX[®]85/50 should be added at a maximum rate of one bag every 30 seconds. After fibre addition the concrete should be mixed at the recommended mixing speed for a minimum of 70 revolutions to ensure adequate fibre dispersion. Please contact your local GCP representative with any questions.

Compatibility

STRUX®85/50 is compatible with all admixtures from GCP Applied Technologies. Their action in concrete is mechanical and will not affect the hydration process of the cement and therefore will not affect the compressive strength. Each liquid admixture should be added separately to the concrete mix.

Health and Safety

See STRUX®85/50 Material Safety Data Sheet or consult GCP Applied Technologies.

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