

Fibre adds strength

Istrice is a recently patented synthetic structural fibre which is added to concrete mixtures with the aim of increasing tensile strength, ductility and durability. It is claimed to enhance concrete performance without significantly affecting the product's workability so that little or no superplasticiser is required and the inclusion of a high level of fibre reinforcement is possible.

Istrice is said to conform to the type III ASTM class1 as it presents a long-term resistance to deterioration. It is a structural fibre with a tensile strength claimed to be higher than 400MPa with a 15% elongation.

Secant Young modulus is about 2.7GPa.

Istrice comes in different shapes according to the size of the cast and the customer requirement. Typically, it ranges in length from 20mm to 50mm and from 0.5mm to 1mm equivalent diameter (1500 to 6000 denier).

The fibre is said to be waterproof, chemically inert and exhibits a strong resistance to acid and alkali making it ideal for application in marine, humid or aggressive environments.

Fili & Forme

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