

Product Data Sheet  
Edition 07.2014  
Identification No. CA - 28



## PROFIBER SF

Steel Reinforcement Fibers( Wave& Hooked ) Shaped

### Description

**PROFIBER SF** is steel fiber modifies and improves concrete and sprayed concrete mix. It produces a high strength, tough, impact resistant, abrasion resistant and thermal shock resistant concrete mix .

### Where to use

- Industrial floors & bridge decks.
- Reinforced concrete road runways.
- Precast concrete elements .
- Shotcrete works .
- Repair works .
- Military buildings.
- Slope stabilization & tunnel linings.

### Advantages

- Increase the load – bearing capacity of concrete.
- Increase impact resistance .
- Reduce the growth of cracks & improve toughness.
- Provide exceptional abrasion resistance & spalling resistance.
- Prevent micro cracks.

### Properties

Tensile strength increases	< 80%
Flexural strength increases	< 100%
Compressive strength increase	< 50%
Impact resistance increase	< 200% >

### How to use

- When dry mixing, the fines should be added first followed by the fibers and coarse aggregate.
- When wet mixing, the consistency of the mix should not be too stiff or too fluid. The fiber should be dispersed and intermixed and evenly distributed.
- The concrete is finished and cured according to the standard methods.

#### **Theoretical Dosage rate:**

- 3 % by weight of concrete
- Fiber size are 30,50 mm long
- Aspect ratio L/ D ( 50-65 )

#### **Packaging:**

20 Kg sacks

#### **Shelf life & Storage:**

Unlimited, it must be stored in dry conditions.

### Health and Safety

- \* Do not dispose in water or soil but according to local regulations.
- \* Non toxic under relevant health and safety codes.
- \* Non hazardous during transport.

### Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range.

For our customer's satisfaction, PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.