



A/3, Panchtirth Apartments,
Nr. Mahalaxmi Cross Road, Paldi,
Ahmedabad-380 007. India
Phone : 91-79-2663 1141 (M) 098240 68278
Fax : 91-79-2662 1078
Web : contechchemicals.com
Email : contechchemicals@hotmail.com
info@contechchemicals.com



**CONTECH
CHEMICALS**

Chemists to the Building Industry

CONFIBER

A SOLUTION FOR CONCRETE REINFORCEMENT

It is a widely accepted fact that traditional concrete mixes are prone to plastic shrinkage during the setting phase and this can lead to cracking. ConTech Chemicals developed CONFIBER specifically for the reinforcement of cementitious mortars and concrete mixes. These fibers are made of Alkali Resistant Polypropylene and resistant to acids, other chemicals and can be easily incorporated in the concrete mix. Having the **fibrillated** structure it ensures better binding and anchoring of aggregates in concrete and plaster mortar.

FEATURES OF CONFIBER:

- Ideal aspect ratio (ratio of length to diameter)
- Highly resistant to acids, alkalis and other chemicals
- Non rotting, non-corroding composition
- Safety in use, no health risk.
- Replaces non structural; steel in roads and chicken mesh in plastering of buildings and there by reduces the high cost.
- Enhanced mechanical properties, not only in the plastic stage but also in the hardened stage.
- Save Cement Consumption in plastering mortars.
- Easy incorporation into concrete
- Reduces permeability and therefore increases durability.
- Inhibits plastic shrinkage cracks and settlement cracks by more than 85%.
- Confiber does not allow moisture or water to seep in due to reduction in permeability.
- Distribute localized stresses and increase fatigue resistance.
- Reduces unequal bleeding so solids in concrete do not settle unevenly and enhances cement hydration in fresh concrete thereby increasing tensile compressive and flexural strength.
- Improves fire resistance characteristics in concrete and mortars as well reduces risk of spalling in concrete structures.
- Increase impact strength sand abrasion resistance.
- Reduces rebound losses.
- Reduces breakages during production and transportation of precast concrete units.

Construction Chemical Manufacturers & Waterproofing Contractors



A/3, Panchtirth Apartments,
Nr. Mahalaxmi Cross Road, Paldi,
Ahmedabad-380 007. India
Phone : 91-79-2663 1141 (M) 098240 68278
Fax : 91-79-2662 1078
Web : contechchemicals.com
Email : contechchemicals@hotmail.com
info@contechchemicals.com



PROPERTIES:

Specific Gravity	: 0.92 g/cc
Melting Point	: 165 degree Centigrade
Absorption	: Nil
Alkali / Chemicals resistance	: Excellent
Acid and Salt resistance	: High
Tensile Strength	: 0.67 KN/m ²
Melting Point	: Greater than 165 C
Fiber length mm	: 6, 12, 15, 20, 24, 30, 40, 60, 120
Thermal Conductivity	: Low
Electrical Conductivity	: Low
Tenacity	: 4 – 5.5 GPD
Elongation	: 12 - 17%

PROCEDURE FOR MIXING:

Mixer Machine:

Add Confiber in the mixture containing concrete and mortar aggregate with water at the specify dosage mentioned above. Mix thoroughly for 3 to 4 minutes.

Manual Mixture:

Spread Confiber on the heap of dry concrete / mortar evenly and mix the Confiber for two to three times. Add water to the dry mix and that wet mix thoroughly for 2 to 3 minutes.

RECOMMENDED SIZE OF CONFIBER IN DIFFERENT APPLICATION:

<u>SIZE</u>	<u>APPLICATION</u>
6 mm	Internal / External plaster / Cracks / construction joints
12mm	Tennis Court Repair, Restoration of canal /mine/tunnel lining / bridgeDeck / Guniting
15mm	As above and Airport runways, taxiways, Tremix Flooring
20-24-30mm	Long Line Pre stressed Concrete Products/ Un-reinforce Pavements /Roads
40mm-60mm	Precast Products such as pipes / roofing sheets, slabs
60mm-120mm	As above and Plaster of Paris

DOSAGE:

700 - 910gms/m³ of cement or 100 to 125 gm per 50 Kg. bag of cement mix for Concrete or mortar application.