

TECHNICAL DATA SHEET

OXYFIBRE 450 *tx*

Fibrillated tape



RAW MATERIAL

100% Virgin (Natural) Polypropylene Homopolymer.

TREATMENT

Crypsystems treatment synthesizes **CRYPLON** on the polymer surface, creating a wettable polarized surface. **CRYPLON** surfaces enhance bonding and mixing properties within the substrate.

DESCRIPTION

OXYFIBRE CHRYSO® 450 *tx* is an uncrimped, extruded, fibrillated **CRYPLON** fibre.

LENGTH

50mm.

PACKAGING

9kg or 1kg polyethylene bags (other packaging are available on request)

FEATURES

- Chemically inert
- Non-magnetic
- Excellent fibre dispersion capacity
- Unlimited storage
- Corrosion resistant
- Increased wettability characteristics
- Enhanced interfacial bonding with matrix

PROPERTIES	UNITS	CRYPLON <i>ft</i>	TEST METHOD
DENSITY	g/mc ³	0.91	ISO 1183
MELTING POINT	°C	160	ISO 3146
TAPE WIDTH	mm	7.5 ± 10%	-
TAPE THICKNESS	mm	0.0965 ± 10%	-
IGNITION POINT	°C	590	-
BREAKING STRENGTH	N	189N average	-
ELONGATION	-	10% average	-
CONTACT ANGLE (H ₂ O)	-	< 60°	-
TEX	-	450g / 1000 ± 10%	-
TENACITY	-	4.15 average	-

TYPICAL APPLICATIONS

CRYPLON *ft* is specially manufactured as a concrete additive to limit plastic shrinkage, control early cracking, enhance the impact resistance in cementitious products and can be used as an alternative to steel mesh, typically (but not limited to):

- Commercial, Industrial & Residential Floor Slabs
- Precast Concrete Products
- Thin panels
- Architectural Finishes
- Marine & Hydraulic Structures
- Bridge Decks
- Plasters & Mortars
- Secondary Structural Reinforcement
- Refractory Casting Moulds
- Shotcrete (Primary Rock Support)

Benefits

- Low cost reinforcement
- Reduces concrete cracking due to plastic shrinkage
- Reduces initial setting of concrete
- Improves impact & abrasion resistance
- Cost effective and superior alternative to crack control applied steel mesh
- Improved energy absorption
- Reduces sag and improves the rheological properties of the fresh mix
- Increase flexural loading capacity
- Light, clean & safe to use
- Protects primary reinforcement by inhibiting surface cracking
- Decreases concrete permeability
- Improves compression strength
- Improves interfacial shear bond strength
- Creates a multidirectional chemical bond between the Cryplon fibre and the matrix