



STRUCTURAL MACRO SYNTHETIC FIBRE FOR CONCRETE REINFORCEMENT

PPB

Structural
Macro Synthetic Fibre



PRODUCT

SHWITCOM 48PPB is a Macro Structural Synthetic Fibre that gives optimum performance in highly corrosive environments. Is ideally suited in pre-cast, slabs on ground among many other applications. Higher Re3 values are achieved in slabs on grade when using this fibre.



The properties of 48PPB are described on the other side of the leaf. For more information, please contact us.

www.shwitco.com

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PACKAGING, STORAGE & PRODUCT INFORMATION

- 5KG boxes – fibres wrapped in water soluble plastic pucks (Parallel Packed) in biodegradable boxes.
- Entire package is thrown into the mix this allows for easy handling whilst leaving no waste on site.
- Allow 3 to 5 minutes at mixing speed for fibres to disperse evenly throughout matrix.
- Can be added to the mix at any stage during batching.
- SHWITCOM 48PPB is uniquely designed and packaged allowing it to be evenly dispersed through the matrix, insuring no balling or pumping problems will occur.
- Environmentally friendly recycled packaging with no waist.

TECHNICAL INFORMATION

	SHWITCOM 48PPB
Material Type	100% Polyolefin Polymer
Tensile Strength	Minimum 550Mpa
Melting Point	160°C
Appearance	Embossed
Alkali Resistance	Excellent
Dosage	2-10kg per m ³

FIBRE SELECTION GUIDE

Fibre	Length	Width	Application
48PPB	48mm	1.2855mm	Exterior Concrete Slabs Industrial & Commercial Yards

QUALITY & TESTING

Beam Results with PPD Fibres at 4, 6 & 8 kg Dose Rates. Results of flexural strength characteristics are summarized in the table. Average flexural strength parameters from the load–deflection curves (average of three beams) by test methods ASTM 1018 and JSCE - S14.

Table 3.3 – Static Flexural Strength and Compressive ratios.

Fibre Ref./ Dose Rate (kg)	First Crack Deflect. (mm)	First Crack Load. (kN)	Flexural Tensile Strength (Mpa)	First Crack Strength (Mpa)	Flexural Tough. at 2 mm (J)	Eqv't Flexural Strength (MPa)	Max Load before failure (kN)	Eqv't Flexural Ratio Re3. (%)
4kg	0.025	14.284	4.01	4.01	17.0	2.390	14.284	60
6kg	0.034	12.087	3.76	3.36	17.7	2.440	13.452	64
8kg	0.083	11.880	4.55	3.36	23.2	3.286	16.071	73

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The unique packaging allows cost saving in transport, storage and handling, with the combined use of water soluble wrapping there is no waste to dispose of.