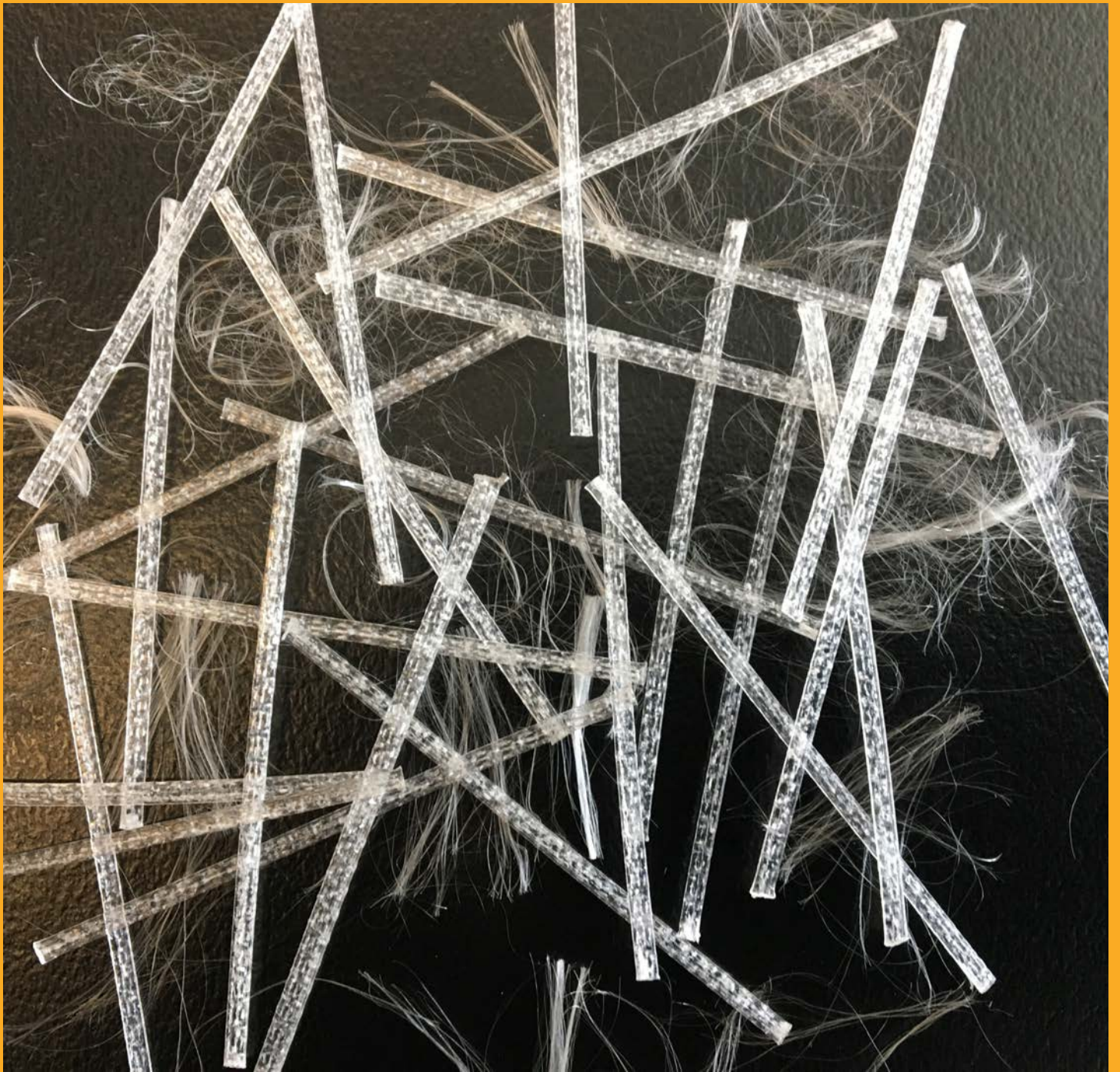




CONCRETE

SikaFiber® PPM 48/19

BUILDING TRUST



SIKAFIBER PPM 48/19

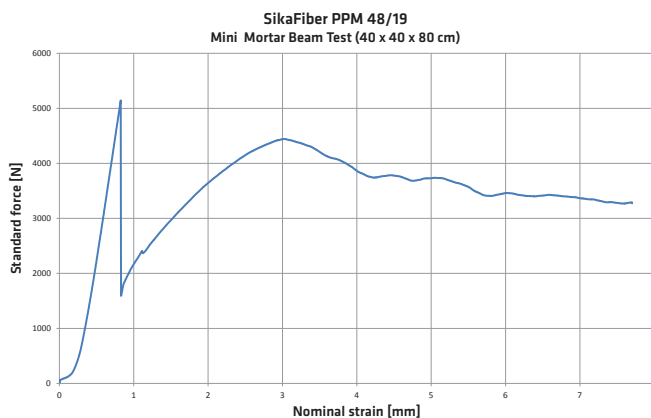
SIKA SOLUTION FOR DURABLE, SAFER & FASTER CONCRETE CRACK CONTROL

Blended polyolefin macro & micro fibres provides improved interfacial bonding and flexural toughness efficiency. This Australian made macro synthetic fibre blend provides optimum solutions for ground supported slabs, shotcrete and precast industry.

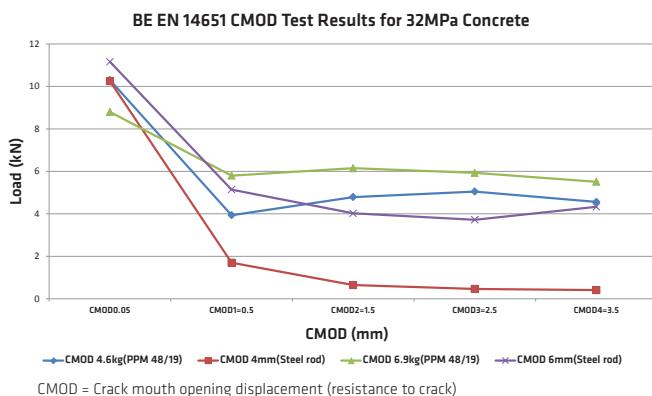


POST CRACK PERFORMANCE

A) Mini mortar beam test load vs. deflection curve



B) Concrete beam test (600x150x150mm) to compare the performance of PP 48/19 fibre and 4mm & 6mm steel rods (welded wire)



RESEARCH & DEVELOPMENT



ADVANTAGES OVER CONVENTIONAL WELDED WIRE MESH

- Durable: No rusting of poly fibre hence no requirement of maintaining a minimum cover to reinforcement.
- Safer: No transportation, cutting, bending & fixing of steel hence reduce the injury risk of workers & public.
- Easy to transport: No need of large trucks or trailers to move around as it comes in 2.3kg small boxes.
- Less labour: No cutting and fixing of steel hence less labour cost and faster to use.
- Easy dosing: No need of special dosing equipment hence fibre could be added at site or at ready-mix plant.
- Easy finishing: No special tools required for finishing and could use conventional vibrating and finishing tools to place and finish the concrete.
- Better crack control: Reduce incidents of plastic shrinkage & plastic settlement cracking.
- Improved hardened stage properties: improves impact resistance, abrasion resistance, shear strength and toughness of concrete.

AREAS OF APPLICATION

- Ground supported slabs: Domestic, industrial or commercial slabs, car parks.
- Driveways, bikeways, walkways and footpaths.
- Topping slabs and repair works.
- Boat ramps, spillways and drainage channels.
- Architectural concrete: colour concrete, patterned concrete, polished concrete & honed concrete.
- Shotcrete: swimming pools, batter walls, spoon drains.
- Precast and in situ concrete.

GROUND SUPPORTED SLABS



PRECAST



TYPICAL DOSAGE

- Unreinforced concrete: 2.3 kg (for crack Control: footpaths with closer joints, topping slabs).
- Light to medium load applications: 4.6 kg to replace 668 & 665 (cycleways, footpaths, driveways).
- Medium to heavy load applications: 6.9 kg to replace 663 & 661 (ground supported slabs such as car parks, domestic / commercial flat slabs, roadways, septic tanks, soak wells).

SPECIAL NOTES

- SikaFiber PPM 48/19 should not be used to replace the structural steel in suspended slabs/beams, slender columns & walls etc.
- SikaFiber PPM 48/19 should not be used to reduce the slab thickness, joint spacing & dowels.
- Compatibility, technical data and for more information please refer to Product Data Sheet (PDS) of SikaFiber PPM 48/19.
- Contact your local Sika representative for specification or to confirm the suitability of the product for your application.

SikaFiber PPM 48/19 recommended dosage rates

Mesh Type	Bar Diameter (mm)	Bar area (mm ²)	Spacing (mm)	Slab Thickness (mm)	PPM 48/19 Dosage (kg/m ³)
668	4.0	12.57	150	100	4.60
				125	4.60
				150	4.60
665	5.3	22.06	150	100	6.90
				125	5.75
				150	4.60
663	6.3	31.20	150	125	6.90
				150	5.75
				175	4.60
661	7.5	44.20	150	150	6.90
				175	5.75
				200	4.60

IMPORTANT NOTIFICATION

The information, and, in particular, the recommendations relating to the application and end-use of Sika's products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Product Data Sheet for the product concerned, copies of which will be supplied on request. PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.



FOR MORE CONCRETE INFORMATION:



SIKA (NZ) LTD
85-91 Patiki Road,
Avondale, Auckland
1026, NZ

Contact
Phone 0800 745 269
www.sika.com

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