



*Delivering concrete solutions
for a sustainable future*

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Emesh reaches 1,000 tonne CO² Australian Environmental Milestone

Emesh has achieved its first major environmental milestone by reaching 1000 tons of CO₂ reduction since its inception.

“According to the United States Environmental Protection Agency calculations, this is the equivalent of taking 214 passenger cars off the road for 1 year,” stated Fibercon CEO Mark Combe.

The following environmental targets have also been achieved:

- 200 tons of fossil fuels reduction.
- 18,000 m³ of reduction of water usage.
- 50 tons of recycled plastic waste usage.

“A report prepared for the Department of Environment & Energy in 2016, states Australia averages 107kg of plastic waste per person each year. So we have effectively recycled the plastic waste for 467 Australians,” explained Mark.

With increasing recognition by Local, State and Federal governments of the need for sustainable building practices, Emesh is seen as a solution which contributes to the ever-growing quest to carbon neutrality and reduced environmental impacts.

With concrete use at approx. 1m³ per person, Australia uses 25 million m³ of concrete per year. Conservatively, 5% is footpath and light pavements - equating to 1.25million m³.



“If we replaced all the steel mesh in these pavements with Emesh, we would reduce our CO₂ by 125,000 tons annually, and re-use 5,000 tons of waste plastic”, said Mark. “It’s an exciting goal for us.”

Fibercon’s MP47 chosen for Challenging Intersection in Gold Coast Light Rail Project



The Gold Coast Light Rail project is one of the biggest public transport projects in Australia and the largest transport infrastructure project ever undertaken on the Gold Coast.

Working with Aecom Engineers and CPB Builders, Fibercon’s MP47 was used in a difficult intersection of Parkwood Drive and the Gold Coast University Hospital.

The rail line curved through the intersection and had super elevation. This made construction difficult—especially to place the proposed top reinforcing steel so it would be clear of the rail holding bolts.

The answer was 6kg/m³ of Fibercon MP47. This eliminated the need for a top layer of steel.

In addition to its environmental and cost benefits, the use of Emesh also decreased both construction and driver delays through speedier implementation: the intersection is one of the busiest on the Gold Coast.





Livingstone Shire Council selects Fibercon's MP47 for Iconic Lagoon

The new 12,500 m² lagoon is nearing completion, as part of the Council's \$53m Yeppoon Foreshore and Town Centre Revitalisation project.

Wollams Constructions were seeking an alternative to steel mesh that would be durable in a salt environment. Fibercon's MP47 was selected as it met all the project requirements, and provided a non corrosive reinforcement.

Fibercon's MP47 chosen for Pindara Private Hospital



When topping was required for new developments at Pindara Private Hospital in Benowa, Queensland, Fibercon was selected to fill the brief.

Fibercon MP47 was chosen because it eliminated the need for steel mesh and allowed for extremely durable but thin topping sections - down to 15mm if required.

The Fibercon Mix was also able to be pumped many stories high and simplified the topping process, saving both time and money.

Bowen Skate Park Receives Emesh Treatment for Upgrade



Emesh was selected by the Whitsunday Regional Council for a long awaited upgrade to the iconic Bowen Skate Park.

The Bowen Skate Park was built in 2009 as part of the Whitsunday Regional Council's award winning beachfront development, and is a key local and tourist attraction.

In conjunction with Pilcher Industries in Bowen, Emesh fibers, used at 6kg/m³, were chosen for the new concrete overlay. The slab was 40m x 25m and averaged 170mm thick, and placed in 3 pours. The use of Emesh reduced the CO₂ footprint by 12.5 tons compared to steel mesh.



Magnetic Island Walkway protected against salt corrosion

Emesh was used by the Townsville City Council for 3,500m² of combined pathway on Magnetic Island connecting the "X base resort" to Nelly Bay.

As the pathway is located adjacent to the beach it will be subjected to a continuously high salt environment. With polymer joints and dowels the pavement has no elements that can corrode – resulting in significantly lower maintenance and whole of life costs.

The project was completed on time with a quality finished and crack free pavement. By using Emesh the CO₂ footprint of the pavement was reduced by over 35 tons.

The dosage rate was 4kg/m³ with a 100mm slab and 32MPa concrete, 3metres wide, saw cuts at 3 to 4 metres and Danley K-Form at 18 Meters. Visit: www.emesh.com.au