



Manufacturing & Technology

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In this edition

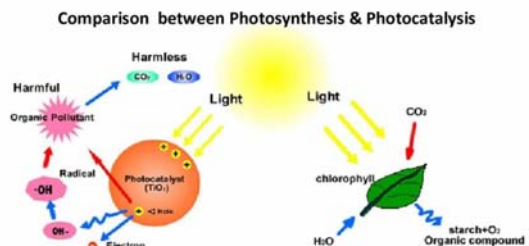
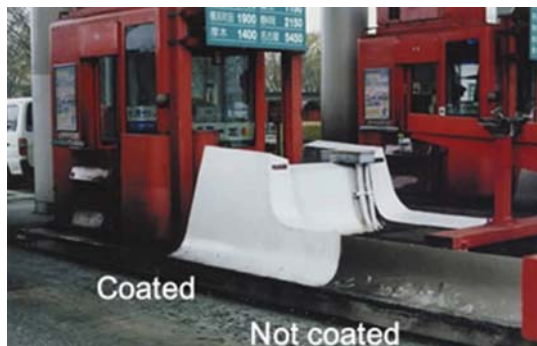
- [Photocatalytic coatings: clean and green - offering precasters a value add](#)
- [Maku Holdings PNG seeks partner for precast plant](#)
- [Hollowcore for an extra floor](#)
- [New concrete's more green than grey](#)
- [Lime and CO² produce cement-like material](#)
- [Bones & shells for more durable concrete](#)
- [Austroads updates & publications](#)

Photocatalytic coatings: clean and green - offering precasters a value add

A new product now available in Australia, self-cleans and protects against graffiti, while purifying the air at the same time.

Contact Tony Watling on 0425 296 224 for more information.

[Click to read more](#)



Maku Holdings PNG seeks partner for precast plant

Maku Holdings are a well-established business in Papua New Guinea whose business is focused on plant hire, road maintenance and civil constructions. They are looking to establish a precast concrete plant in Port Moresby and seek a partner who is experienced in quarry, aggregate and precast concrete plant operation.

For more information please contact:

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Hollowcore for an extra floor

Vanessa Ott, Director and civil engineer at JagerPartner Engineering in Zurich came up with a great way to increase space by building an intermediary slab into an existing production hall.

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New concrete's more green than grey



Around the world, efforts are under way to green-ify concrete, such as cement-free concrete (developed by British company Cemfree) and Taktil, an ultra-high-performance concrete (UHPC).

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Lime and CO² produce cement-like material



Researchers in California are working on a new method for using CO² generated by fossil fuel power plants in a 3D-printable concrete.

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Bones & shells for more durable concrete

Researches at MIT are seeking to redesign concrete by following nature's blueprints.

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Austrroads updates & publications

Bridge & tunnel modeling using 3D CAD method

This paper describes the recent development in 3D CAD for bridges and below-ground structures.

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RTA Study on the use of Self-compacting Concrete (SCC)

This paper discusses the use of SCC in bridge elements where mechanical compaction is hindered by WHS requirements.

[Click to read paper](#)

Specifying sulfate-resisting concrete

This paper examines CCAA's research project on the performance and specification of sulfate-resisting concrete.

[Click to read paper \(Part 1\)](#)

[Click to read paper \(Part 2\)](#)

Ultra high performance ductile concrete in a 50m bridge

This paper details the construction of a 50 metre span road bridge using UHPdC.

[Click to read paper](#)

Strengthening the West Gate Bridge concrete viaducts

This paper describes the elements used to strengthen the concrete viaducts including carbon fibre reinforcement and additional post-tensioning.

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Geopolymers - The VicRoads experience.

This paper presents the VicRoads experience with regards to use, testing and ongoing monitoring of geopolymer concrete.

[Click to read paper \(Part 1\)](#)

[Click to read paper \(Part 2\)](#)