



Applications & Innovations

October 2017

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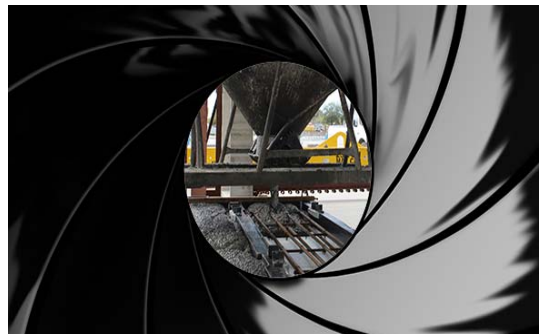
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Applications

The name is Bond - Reinforcement Bond

Here's everything you need to know when it comes to ensuring the bond strength between reinforcement and concrete is as indestructible as the 007 agent himself.

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Modern-day gargoyles: precast concrete emojis

A building in Amserfoort in the Netherlands features 22 emoji faces that have been cast in concrete. We know what you're thinking—*astonished face*; *face with rolling eyes*; *winking face*.

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Setting a new Australian record at Port of Brisbane

Spanning up to 46 metres, the giant girders that have been placed for the Port of Brisbane's \$110 million upgrade are of record length.

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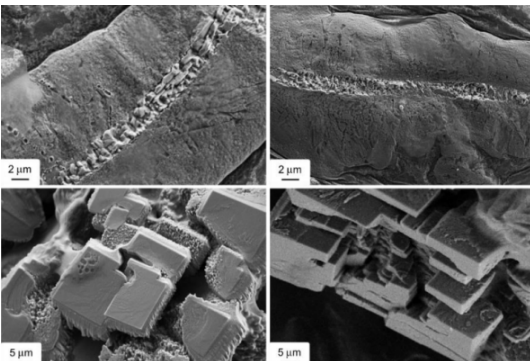


Pile it high—Singapore's prefab tower revolution

The Clement Canopy in Singapore will be the world's tallest building using an all-concrete version of the PPVC (prefabricated prefinished volumetric construction) system.

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Innovations



Can mushrooms repair crumbling infrastructure?

If you say no before reading this article, then you're not a fun-guy. The idea is that fungal spores are added to the concrete when it is mixed and then lie dormant until the concrete cracks. Water flowing into the cracks causes the spores to germinate, filling the cracks with fungal fibers that trigger the formation of calcium carbonate—which eventually fills the void.

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Go gaga for Gomos

The Gomos Modular Housing System allows you to build adjustable structures in a matter of days. Inspired by concrete drainage pipes, the system includes segments of concrete that can be configured in various shapes and volumes.

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A rebel with a cause

Using precast concrete technology, a self-confessed rebel and Indian entrepreneur set out to challenge traditional methods of construction and complete a three-bedroom house in just 24 hours. Did he succeed?

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Taking stairs to the next level

Manufactured by National Precast member, Hanson Precast, the new Woden bus interchange stairway is giving commuters another handy way to whizz around. Its innovative design caters for cyclists and pedestrians alike, 'keepin' it wheel' on the user-friendly front.

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