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Cast-in plate chair

National Precast member Plastic Solutions Australia has developed a unique, cost effective and efficient Cast-in Plate Chair to simplify the installation process. Contact PSA's Lee Byrom at <u>lee@psa.com.au</u> or on **0403 567 733** for more information.



Green mixes

CO₂ injected concrete technology lowers carbon footprint

CarbonCure Technologies has developed a green concrete technology, where carbon dioxide is injected into the concrete, making it stronger, faster curing and reducing its carbon footprint. <u>Read more.</u>

UTS trials copper slag and ground pumice in concrete

UTS is part of an international search for cement and aggregate alternatives to reduce concrete's carbon footprint. <u>Read more.</u>

Plastic fibres from recycled plastic, replace steel

Scientists at Queensland's James Cook University have won an innovation award for a concrete mix using plastic fibres made from recycled plastic. <u>Read more.</u>





3D printers & robotics

3D printer builds a house in one day

A revolutionary new 3D printer can print a 200 square metre home, layer by layer, in just 24 hours. <u>Read more.</u>

Cement powder pushes boundaries of 3D printing

Researchers in the US have developed a new cement powder material that will allow for more daring and innovative concrete structures. <u>Read more.</u>





Rise of the robots around the globe

Robotic technology is increasing with many companies releasing construction-oriented robots or machines to assist on site. <u>Read more.</u>



Growth of giant gantry robots used to build bridges

Bridge construction around the world is being revolutionised by the use of automated launching gantries. <u>Watch how it works.</u>



'Zipper' truck speeds tunnel construction

Canadian company Lock-Block has come up with a new way of building tunnels. Their Zipper truck uses precast concrete blocks that fit together as they are lowered onto the contours of the truck. <u>Watch how it works.</u>

Durability solutions

Bacterial 'healing compound' in 'biocement' avoids and heals cracks

Self-healing technology uses a bacteria to avoid and heal concrete cracking. Read more.

Australia's pioneering push for longer lasting concrete

Australia is pushing for concrete durability changes to reduce chloride-induced corrosion in coastal city structures. <u>Read more.</u>

More durable concrete with sewage sludge mixture

Researchers in Malaysia are testing the use of sludge from sewage waste water to increase concrete's durability and reuse waste products. <u>Read more.</u>



Manufacturing over building

China's Broad Sustainable Building company constructed a 57 storey building in just 19 days by using premanufactured components. <u>Read more.</u>





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