

The Spencer, 420 Spencer Street

Master Builders Solutions – water-reducing admixtures

Project:

The Spencer, 420 Spencer Street

Location:

Melbourne, Victoria

Project completed:

December 2015

Applicator/Contractor:

Maxcon Pty Ltd

Concrete Producer:

Barro Group Pty Ltd

Market sector:

Admixture systems

Products used & amounts:

MasterPozzolith® 400

Sales contact:

Rocco Gagliardi



The Spencer – 420 Spencer Street in West Melbourne, Victoria. Image: Courtesy of Bruce Henderson Architects

The background

Blending modern and heritage, 420 Spencer Street has always been a striking building. As one of Melbourne's premier examples of art deco architecture, the new 38-floor residential development is building upon the original building on the site, incorporating the 1930s-era facade.

Awarded the construction of the new high-rise, family owned and operated construction company, Maxcon, turned to Barro Group for their concrete needs. Barro in turn worked with BASF on ensuring the required volume and quality of concrete was delivered.

The challenge

The design of this 38-floor residential building required the concrete slab to be poured in one continuous go, using a low-heat mix. Situated below the water table, the slab also needed to be protected from long-term water ingress.

Located at a major thoroughfare into Melbourne's central business district, the area around the Spencer is busy at the best of times. Add the frenzy of last-minute, late-night shopping before the Christmas holidays, and the challenge of seamlessly supplying 2,450m³ of concrete becomes a lot tougher.

Contact:

Rocco Gagliardi

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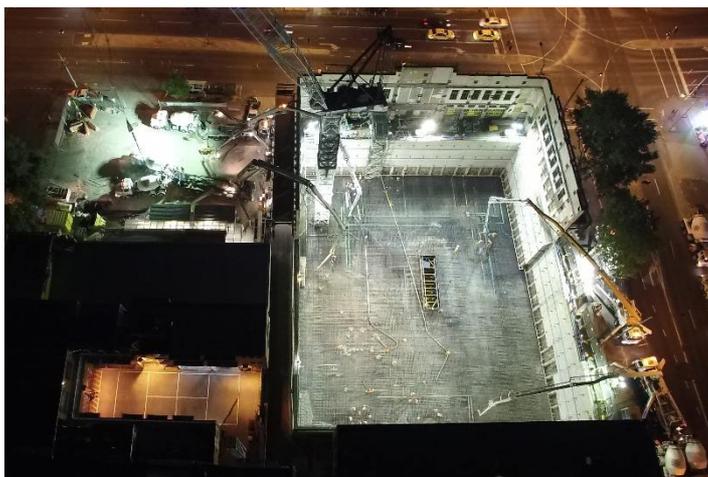
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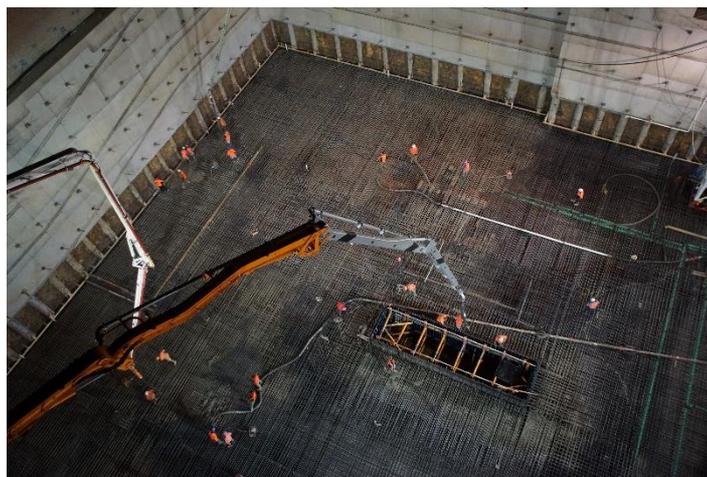
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A tight timeline and single-pour-requirement made the job a big logistical undertaking. Image: Courtesy of Walter Ferronato, Barro Group



Five concrete pumps were needed to discharge the 2,450m³ of concrete into place. Image: Courtesy of Walter Ferronato, Barro Group

Our solution

BASF's MasterPozzolith 400 admixture was chosen to enhance the concrete's overall performance in terms of slump retention, workability, water reduction and mix rheology.

To meet the tight timeline and single-pour requirement, the concrete supply came from two plants, was delivered by 40 trucks and discharged into place by five concrete pumps. Managing this enormous logistical undertaking required solid traffic management planning and the careful allocation of designated working and parking locations.

The customer's benefit

- Master Builders Solutions delivered the right solutions on time as required.
- On-call support during construction.

Project facts at a glance

- The Spencer's overall construction began in 2015 and is expected to be completed in 2017.
- BASF's project period was during December 2015.
- 2,450m³ of concrete was poured in 8 hours.

Master Builders Solutions from BASF

The Master Builders Solutions brand brings all of BASF's expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of BASF construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global BASF technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction.

The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair & protection solutions, performance grouts, performance flooring solutions.