

25 November 2025

INDEPENDENT EXPERT PEER REVIEW VALIDATES AUSPOZZ™ PERFORMANCE

Emerging mineral processing technology company Zeotech Limited (ASX: ZEO, “Zeotech” or “the Company”) is pleased to announce that BG&E Pty Ltd (“BG&E”), a nationally respected engineering consultancy, has completed an independent peer review of AusPozz™ performance in concrete mix trials.

This review reinforces market confidence and validates AusPozz™ as a high-performance supplementary cementitious material (“SCM”) aligned with Australian standards.

HIGHLIGHTS

- Independent peer review of AusPozz™ performance in concrete mix trials prepared over a 12-month period by BG&E, a nationally respected engineering consultancy company
- The review confirmed consistently superior strength performance across all mix designs, demonstrating the clear performance benefits of AusPozz™. In some trials, concrete mixes incorporating AusPozz™ achieved strength increases of more than 130%, underscoring its capability to significantly enhance structural properties.
- Concrete drying shrinkage reduced by an average of 30% after 56 days across the trial mixes, indicating significantly enhanced dimensional stability and improved cracking resistance.
- AusPozz™ can effectively mitigate Alkali-Silica Reaction (“ASR”) risks. At 25% cement replacement, all materials tested transitioned from reactive to non-reactive status.
- The review provides technical support for AusPozz™ classification under AS 3852.4:2022 – Pozzolans – Manufactured, confirming compliance with industry standards.
- Expanded testing program to include additional durability assessments and other concrete mix designs, such as high-performance concrete, to allow broad industry adoption.

Zeotech Chief Executive Officer, James Marsh, commented:

“Independent expert validation confirms AusPozz™ as a high-performance building material with the capability to materially decarbonise concrete across both infrastructure and commercial applications and deliver technical advantages. The demonstrated benefits in strength, shrinkage control, ASR mitigation, and the potential for cost savings position AusPozz™ as a highly compelling solution for the built environment.”

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Importantly, BG&E's independent review provides industry stakeholders with confidence that AusPozz™ meets rigorous technical standards and can consistently deliver both sustainability and performance outcomes. This milestone reinforces Zeotech's commitment to advancing innovative, low-carbon materials that support the transition to sustainable construction while delivering tangible economic and operational value for our partners."

To support market confidence and alignment with industry standards, Zeotech engaged BG&E, a nationally respected engineering consultancy, to conduct an independent peer review of AusPozz™ performance in concrete mix trials.

BG&E is a global civil and structural engineering consultancy known for delivering innovative, practical, and award-winning design solutions across infrastructure, transport, and building sectors.

BG&E's materials team regularly undertakes reviews for infrastructure, construction, and materials development projects. These reviews enable validation of the client's performance claims, meet regulatory standards, and support market positioning.

The review assessed a comprehensive series of concrete trials undertaken over a 12-month period across multiple mix designs and applications, including precast, bulk-fill, abrasion-resistant, and high-performance concretes.

Concrete mixes used in the trials reflected industry-standard mixes and included a control or standard mix to allow for performance comparisons between AusPozz™ mixes and to assess the material's performance. This method follows standard industry practice of benchmarking materials.

Key findings include:

- **Strength Gains:** Concrete mixes containing AusPozz™ showed consistently higher strength performance across the mix designs, providing a strong indication of the beneficial performance, with strength improvements exceeding 130% of the control mixes in some trials.
- **Shrinkage Reduction:** Drying shrinkage was reduced by an average of 30% after 56 days across the trial mixes, indicating significant enhanced dimensional stability and improved cracking resistance.
- **Workability:** Concrete plastic properties, workability, bleed, and air content are all consistent with similar concrete mixes using other SCMs. In many cases, trials have been batched at commercial concrete plants and, as such, are considered representative of commercially produced concrete.
- **ASR Mitigation:** Commonly referred to as 'concrete cancer', AusPozz™ can effectively mitigate ASR risks. At 25% cement replacement, all materials tested transitioned from reactive to non-reactive status.

- **Thermal Performance:** AusPozz™ reduced peak concrete temperatures compared to cement, which allows cost savings and reduced risk of failure. AusPozz™ showed similar thermal performance to concrete mixes containing other SCMs, with the notable additional benefit of increased strength.
- **Silica Fume Replacement:** AusPozz™ produced similar performance to that of silica fume in high-strength concrete mixes. Silica fume is a costly product that is difficult to handle and use¹. Therefore, replacement by AusPozz™ would yield significant cost and productivity savings.

BG&E's peer review provides independent technical support of AusPozz™ as a high-performance SCM, supporting its classification under AS 3852.4:2022 – Pozzolans – Manufactured.

This validates that AusPozz™ can be used to partially replace cement, decarbonising concrete, while also providing a solution to a range of technical issues and offering potential cost savings.

NEXT STEPS

Zeotech will expand its testing program to include additional durability assessments and a broader range of concrete mix designs, including high-performance concrete, to support widespread industry adoption of AusPozz™.

The Company is also working with Queensland Transport and Main Roads with the objective of securing AusPozz™ inclusion on its approved products list.

This announcement has been approved by the Board.

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About BG&E

The report was authored by Greg van Rooyen, Senior Associate, Team Leader – Materials (QLD). Greg is a Chartered Professional Engineer with experience in civil engineering and advanced concrete technology. He leads BG&E's materials team in Queensland, specialising in durability design, performance optimisation, and compliance with Australian standards.

¹ Cement, Concrete & Aggregates Australia: Amorphous Silica Properties, Characteristics & Uses (January 2018)

Greg holds a Master of Science from Queen's University Belfast and is a member of Standards Australia's BD09-05 committee for AS 5100.5 Concrete. He is also the current National Vice-President of the Concrete Institute of Australia and has held multiple leadership roles within the organisation.

BG&E is a civil and structural engineering consultancy, celebrated for its innovative, award-winning designs that prioritise practicality and constructability. Part of the SYSTRA Group, BG&E continues its decades-long commitment to delivering high-quality technical expertise to its clients.

Together, SYSTRA ANZ and BG&E ANZ comprise a team of over 1,000 employees, with an additional 100 BG&E professionals based across the United Kingdom, Southeast Asia, and the Middle East. Collectively, SYSTRA ANZ and BG&E ANZ deliver high-quality engineering solutions and technical expertise across a wide range of sectors and disciplines.

<https://bgeeng.com/>

About Zeotech

Zeotech Limited (ASX: ZEO) is a team of dedicated people working together to build a future-focused company, leveraging wholly-owned high-grade kaolin resources to produce high-reactivity metakaolin for the low-carbon concrete market and advanced materials for greenhouse gas (GHG) mitigation, such as zeolites for fugitive methane control.

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Such statements are subject to certain risks and uncertainties, particularly those risks or uncertainties inherent in the process of developing technology/products and in the endeavour of building a business around such products and services.

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