

# **Geopolymers in Australia with a Focus on Development of Fire Resistant Products**

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## **Abstract**

This paper will be presented in two parts. The first part will be a brief overview of existing and potential commercial geopolymer activities in Australia. Details of Bayer derived geopolymer as a potentially new commercial product will be included in this section.

The second part of the presentation will focus on development of fire resistant geopolymers. Using local Western Australian fly ash the strategy for improving fire resistance of geopolymers will be outlined. This will include information about the judicious addition of fillers and fibres to ensure structural integrity through minimal expansion/shrinkage during thermal exposure.