



CEMENT AUSTRALIA
GREENCEM[®]

Technologies to reduce embodied carbon in concrete without compromising performance

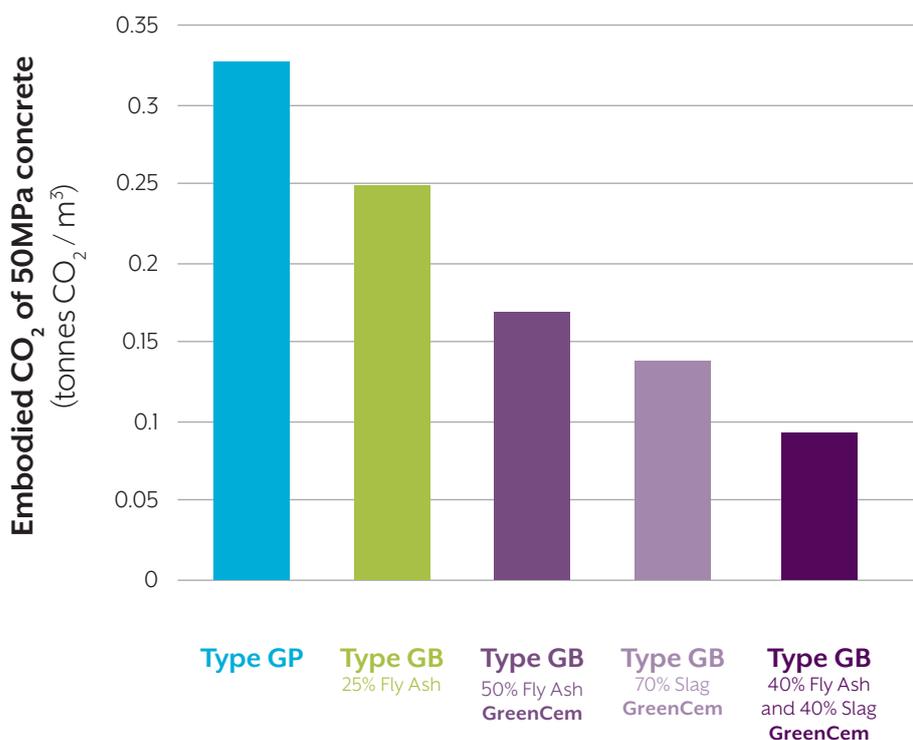
GreenCem is a powdered admixture – compliant with AS1478 – that can allow the mix designer to maximise – up to 80% – the replacement of cement with slag and/or fly ash without significantly compromising concrete performance and in so doing, achieve significant reductions in embodied carbon in concrete.

The average embodied carbon in GP cement is over 5 times that of slag and nearly 30 times that of fly ash. However, the downside of replacing a significant proportion of GP cement with fly ash and/or slag is reduced concrete performance.

GreenCem is the solution...

it allows increased fly ash and slag in your concrete mix without compromising on concrete performance.

Contributing towards the cement and concrete industry ambition for **net zero carbon concrete by 2050**.

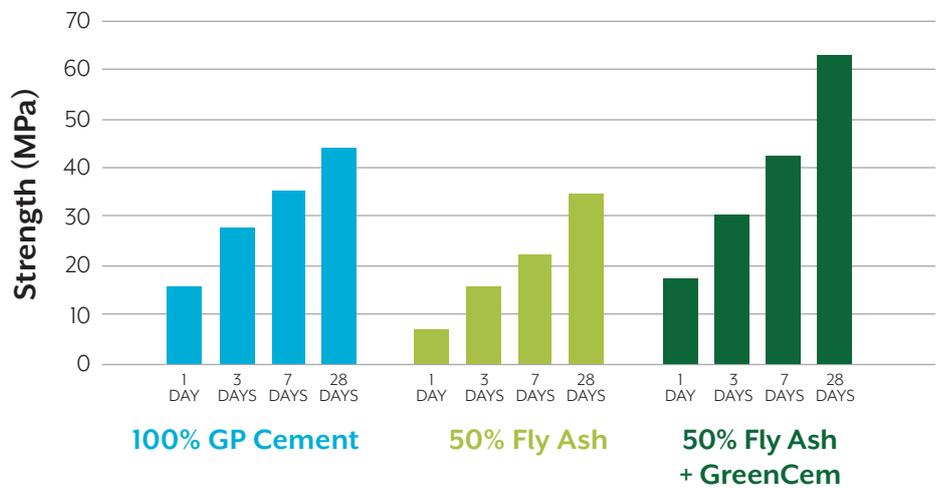


The chart to the left shows a comparison of embodied carbon in various concrete mixes.

Meets the requirements of AS1379 and AS3600
unlike geopolymer binder concrete mixes

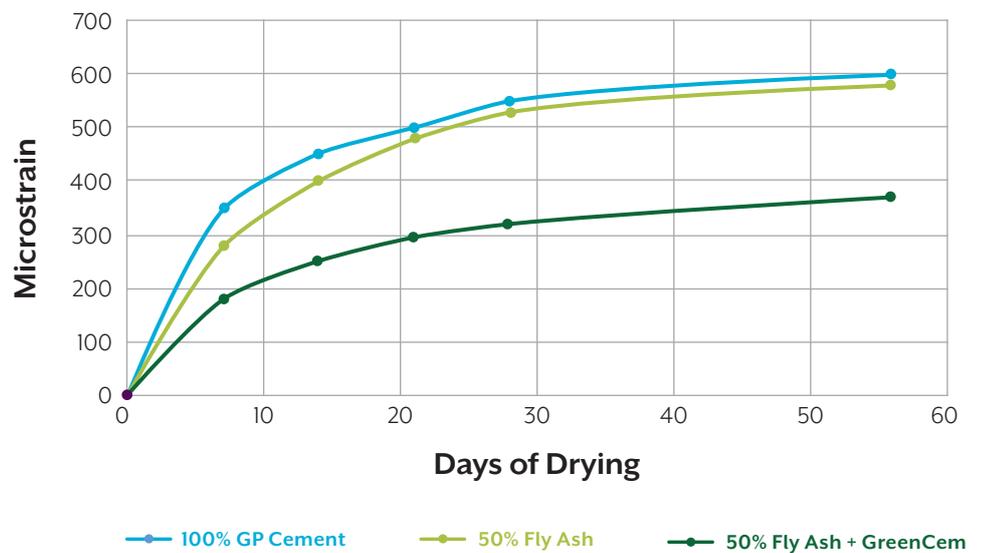
Strength Development

Concrete strength development at high levels of GP replacement with fly ash and/or slag are improved when using GreenCem technologies.



Drying Shrinkage

Concrete drying shrinkage at high levels of GP replacement with fly ash and/or slag is significantly reduced when using GreenCem technologies.



Note: Data provided in the above graphs was achieved by testing conducted in accordance with the relevant Australian Standards test methods, at a NATA registered laboratory. Graphs should be used only as a guide to potential strength as various factors can impact final strength results.