

CO2, the Earthshot Prize and Gyvlon[®] Screeds

We're sure you are all aware of HRH the Duke of Cambridge and David Attenborough's plan for climate change to help save the planet, and a £50m prize?

Prince William has launched a £50m Earthshot Prize to swap climate change despondency for optimism.

So how can construction help??

Let's look at one of the biggest contributors to climate change, **CO2 emissions** and cement production.

* One tonne of cement produces 1.25 tonnes of CO2 which comes from two sources.

First the limestone which is burned to make cement is more than twice the density of water and has to be heated to 1,450°C, which uses a lot of fossil fuel, about .75 tonnes per tonne of cement. * source, rammedearthconsulting.com

According to the 2019 report '[Industrial Transformation 2050 – Pathways to Net-Zero Emissions from EU Heavy Industry](#)' by Material Economics. "Currently, the EU uses more than two tonnes of concrete per person per year, of which 325 kg is cement," "For every kilogram of cement that is produced, 0.7 kg of CO2 is released into the air."

Floor screeds are not structural, so don't need to be made from cement.

A Gyvlon[®] (Anhydrite) based floor screed produces up to 80% less CO2 than a cement based one. On average a cement-based screed has discharged between 215-237kgs CO2 per m³, or 8.6-17kgs CO2 per m².

A Gyvlon[®] based screed in comparison has discharged <60kgs CO2 per m³, or 2.3kgs CO2 per m² at 40mm.

Let's do our bit for the planet - use Gyvlon[®] (Anhydrite) based screeds for the floors!!

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