

Acting on Climate

#LHLowCarbonTransition

Endure SR: Mixing By-Products with Clinker to Reduce Cement Carbon Footprint

What is the challenge?

UK contractors were looking for a solution that would reduce the environmental impact of their build, while simultaneously improving the life span. There was a requirement for a more sustainable and durable concrete.

How can we provide more sustainable, durable and low-carbon concrete?

Key figures

- Cement with less clinker content and thus lower embodied CO₂
- Uses 10 % less water than classical CEM I to reach workable consistency
- Offers improve pumpability and mixing efficiency

Our solution

LafargeHolcims's subsidiary in the UK, Aggregates Industries, has launched Lafarge Endure SR, a cement that blends fly ash with clinker, which results in a lower embodied CO₂, as well as improved plastic and hardened properties when used in concrete.

Lafarge Endure SR is also resistant to sulphates, allowing contractors and suppliers to scope a wider variety of projects including those that may have previously been hindered by ground type. Once hardened, Lafarge Endure SR can be used to DC-4 durability standard and can help increase the life of the structure thanks to its resistance to carbonation and chloride and sulphate attack. This makes it ideal for practically any situation, from producing ready-mixed and precast concrete, to marine, grouting and tunnelling applications



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