

CASE STUDY

ECOPact^{MAX}

LOW CARBON ECOPact Max+



Bespoke Low-Carbon ECOPact Max+ Concrete for Iconic Hope Sculpture at COP26

THE BACKGROUND

The Hope Sculpture, featuring an androgynous child placed more than 20 metres high, has been erected on the bank of the Clyde as a permanent reminder of Glasgow's role as host of the Cop26 climate summit in November 2021.

A collaboration between four principle build partners – Aggregate Industries, Ramboll, Urban Union and Keltbray – the Hope Sculpture is the centre piece of three public art installations by artist Steuart Padwick. It is a showcase of how the construction industry can drive better and more sustainable building as we transition to net zero.



THE SOLUTION

ECOPact Max has been used to create the project's columns and pile caps. This high-strength, green concrete solution without CEMI, offers a minimum 70% CO2 reduction compared to a standard (CEM I) concrete mix. To meet the desired sustainability credentials for the Hope Sculpture itself, Aggregate Industries developed a bespoke ECOPact Max+ product which included 20% recycled glass. This was manufactured locally at Aggregate Industries' network of plants in Scotland.

Throughout the project, Aggregate Industries' technical experts, assisted by Master Builders Solutions, worked in close partnership with the project team to create a range of bespoke solutions to meet the brief. Solutions have included the addition of pigments into the concrete mix to achieve a bespoke colour for the statue's different component parts. In addition, specific aggregate types have been used in the mix to create the exposed rustic finish in the design of the statue, which includes a light-coloured 4/14 aggregate from Skye and recycled glass. These aggregates have been exposed through power washing at the precast works to create the desired finish.

"We are delighted to be a trusted partner of this iconic project. The sculpture serves as a powerful reminder of our collective responsibility to achieve global environmental milestones, which go well beyond COP26, as well as an iconic piece of concrete art that showcases low- carbon, sustainable solutions at their very best."

The Hope Sculpture is one of three public art installations now in situ across Glasgow. The iconic 23m Hope Sculpture is located at Cunigar Loop, part of Clyde Gateway, while the 4.5m 'Beacon of Hope' is located at the city's Glasgow Central Station. The 3.5m Hope Triptych is located at the University of Strathclyde's Rottenrow Gardens. Visitors will be encouraged to access the sculptures via a walking and cycling route that connects the pieces.

Find out more about the ECOPact range of low carbon concretes, at www.aggregate.com/ecopact