

HYDRACRETE®



PAS
2080

BIM
ENABLED

BES 6001
Responsible Sourcing
www.greenbiz.com

In marine and water environments, it is important to be assured that concrete placement does not result in high washout or loss of strength and durability. Designed by Aggregate Industries, Hydracrete is a modified ready-mixed concrete for placement into still or moving water with minimal washout, making this the product to use in these applications, providing you with the ideal construction solution.

FEATURES & BENEFITS

- ▶ The concrete has a high workability requiring no compactive effort once installed.
- ▶ The concrete has increased ability to hold itself together, reducing cement paste washed out by the surrounding water; preventing segregation of the concrete mix.
- ▶ It is ideal for use in difficult access or demanding applications; Can be placed in tidal, static, or running conditions.
- ▶ Can be placed by pump or tremie pipe direct to the point of placing.
- ▶ Due to the durability of Hydracrete it can provide a cost saving over conventional products when comparing whole life performance costs
- ▶ Thixotropic action provides almost immediate stiffening after concrete is placed.
- ▶ High workability with no bleeding.
- ▶ Low permeability, resistant to water ingress.
- ▶ Minimises the impact to the surrounding flora and fauna environments.
- ▶ Little or no effect to the water cement ratio of the concrete, keeping raw material usage to a minimum.

TECHNICAL DATA (NON-AIR-ENTRAINED CONCRETE)

Strength Classes	C20/25 - C32/40
Consistence Class	S4 - F5
Water-cement Ratio	0.35- 0.45
Typical density	2,400 kg/m ³
Typical Air content	0.5 to 1.5%.

APPLICATIONS

All marine and aquatic applications that involve tidal, running or static water; including:

- ▶ Quays
- ▶ Harbour walls
- ▶ Dams
- ▶ Inter-tidal construction/repairs
- ▶ Canal repairs
- ▶ Effluent/sewage treatment works
- ▶ Sea defence walls



INSTALLATION & MAINTENANCE

Hydracrete can be placed in slow flowing water, however where the flow is rapid enough the surface of the concrete should be protected. When placing the concrete the end of the tremie or pump must be kept well immersed in the fresh concrete until the pour is complete.

Hydracrete is generally delivered at a higher consistency than conventional concrete to ensure it's easy to pump, place and pour.

MANUFACTURING STANDARD

Hydracrete conforms with the requirement of European standard BS EN 206:2013+A1:2016 Concrete: Specification, performance, production and conformity and with the requirements of BS 8500-1:2015+A2 2019; BS 8500-2:2015+A2 2019 and BS 8102:2009.

As with all Aggregate Industries' products Hydracrete is manufactured under independently monitored third party quality assurance schemes in accordance with ISO 9001 and with factory environmental compliance to ISO 14001.

SUSTAINABILITY & LOCAL SOURCING

Responsible sourcing: Aggregate Industries is the first company in the world to achieve a BES 6001:2008 Responsible Sourcing Certificate from BRE Global.

Products are assessed on:

- ▶ Quality management
- ▶ Environmental management
- ▶ Health and safety management
- ▶ Greenhouse gas emissions
- ▶ Minimising raw material usage
- ▶ Labour practice
- ▶ Biodiversity
- ▶ Community engagement.

ENERGY USE AND GREENHOUSE GAS EMISSIONS

Aggregate Industries is at the forefront of sustainability and has committed to reducing both energy and greenhouse gas intensity 5% year-on-year.

MANUFACTURING LOCATION

Produced in the UK, with locally sourced materials under strict environmental and social legislation, for local supply.

RECYCLABLE

The product has a life expectancy of 60 or more years and is fully recyclable.

KEY AGGREGATE AND RECYCLED CONTENT

This product may be supplied containing a recycled or secondary aggregate to achieve a reduced environmental impact and increased Green Guide ratings for structural elements and assist in achieving BREEAM waste credits.

POLICIES

Aggregate Industries' policies on the environment and community, health and safety and sustainable solutions for different product applications can be viewed on our website www.aggregate.com

COSHH DATA

Full COSHH data on our concrete products is available on request.

TECHNICAL SUPPORT

Detailed guidance and assistance with the preparation of specifications and use of our concrete range of products is available through the sales offices. A free technical service is also available. Call our technical services at the nearest sales location to your contract.

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