



ECOPLANET ENDURE

(CEM III/A 42,5N)

ECOPlanet is the world's first global range of green cement. Delivering a lower carbon footprint; offering >30% CO₂ reduction compared to CEM I at superior performance to the CEM II/B-V.

ECOPlanet Endure is a CEM III/A 42,5N blast furnace cement. It is effectively a blend of high early strength cement with 40% of GGBS, making it ideal for applications that require enhanced resistance to sulfate and chloride ingress but also require relatively high early strengths. Designed for high exposure class concrete product manufacturing (precast market).

FEATURES & BENEFITS

- ▶ Lowest CO₂ footprint factory blended cement available in bulk in the UK
- ▶ Good resistance to sulphate attack
- ▶ Resistance against chloride ingress*
- ▶ Prevents alkali-silica reaction
- ▶ Moderate heat of hydration
- ▶ Improves pumpability, placing and finishing
- ▶ Optimises water/cement ratio
- ▶ Improved workability retention
- ▶ Reduces the risk of bleeding in concrete
- ▶ Offering full range of sustainability profiles
- ▶ Supports most advanced sustainability building certifications from Breeam to LEED

*Can be classified as CEM III/A+SR when used in accordance with BS 8500 and BRE SD1

TECHNICAL DATA (TYPICAL PERFORMANCE)

Compressive Strengths (Mpa)	
1-day	12.5
2-day	21
7-day	36
28-day	59
Setting time (mins)	180
Declared mean Alkali content (%)	0.75
Declared maximum Chloride content (%)	0.07

APPLICATIONS

For all applications: from complex infrastructure projects to home-building, engineered for concrete products with high durability requirements such as:

- ▶ Drainage products
- ▶ Pipe products
- ▶ Piling work
- ▶ Wide potential range of applications (all exposure classes)

AVAILABILITY

Available in bulk loads delivered by tanker. Site must have suitable access for vehicles and a safe discharge point.

STORAGE

Can be stored in a silo ready for use.

CONDITIONS OF USE

Cement and water ratio must be as low as possible in accordance with placing, thorough compaction and effective curing. As with other cements, there is no substitute for good site practice. It is essential to use the correct materials, proportion and mix the materials properly, add the correct amount of water, compact, cure and protect as appropriate. Lafarge cannot be held responsible where workmanship has not been carried out in accordance with good practice.

GOOD SITE PRACTICE

A risk assessment should be carried out before commencing any work. It is recommended trials are undertaken when using a new type of cement. Samples are available on request for trial work and technical support is available. To maintain strength water/cement ratio should be kept low and admixtures should be used to achieve the required workability. Concrete should be placed by experienced contractors who have the correct training.

SUSTAINABILITY & LOCAL SOURCING

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.

CIRCULAR ECONOMY: We will maximise reuse and recycle, with zero waste to landfill. We improve resource efficiency through reuse, recovery and/or recycling of waste materials in our production processes. Plus, we minimise the generation of both hazardous and non-hazardous waste.

RESPONSIBLE SOURCING: Aggregate Industries is the first company in the world to achieve accreditation to the BES 6001 Framework Standard for the Responsible Sourcing of Construction Products.

Aggregate Industries has achieved a 'Very Good' rating for major product groups. The BES 6001 standard assesses:

- ▶ Quality Management
- ▶ Environmental Management
- ▶ Health and Safety Management
- ▶ Greenhouse Gas Emissions
- ▶ Minimising Raw Material Usage
- ▶ Labour Practice
- ▶ Biodiversity
- ▶ Community Engagement

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 is available on request.

HEALTH & SAFETY

Contact between cement powder and skin or body fluids (e.g. eye fluids) may cause irritation, dermatitis or burns. Cement is classified as an irritant under the Chemicals (Hazard Information and Packaging) Regulations. Please refer to the product safety data sheet for full information.

TECHNICAL SUPPORT

Should you require information for this or any other product within the Lafarge range, please contact our Customer Support team on **01455 288392** or email uk-cement@aggregate.com

For technical support email cement.technical@aggregate.com Alternatively, visit our website at: www.lafargecement.co.uk

Aggregate Industries

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