

PORTLAND LIMESTONE CEMENT

(CEM II/A-L 52,5N)

Lafarge Portland Limestone Cement (PLC) is a cement with typical limestone content of 8-12%. Thanks to this level of limestone PLC has lower embodied CO₂ than Portland Cement (PC) or CEM I.

PLC can be used as a replacement for Portland Cement (PC) and meet the requirements for Design Chemical Classes one and two. PLC can be blended with GGBS or PFA to meet the requirements for Design Chemical Classes three & four. The fresh properties of PLC produced concrete are similar to that of a PC produced concrete.

FEATURES & BENEFITS

- ▶ Quality controlled to conform to EN197-1 CEM II/A-L
- ▶ More resistant to bleed with better cohesion & workability
- ▶ Improved surface finish
- ▶ Reduced alkali
- ▶ Can be used with admixtures and additives
- ▶ Cost effective

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.

TECHNICAL DATA (TYPICAL PERFORMANCE)

Compressive Strengths (MPa)	
2-day	31.0
7-day	47.0
28-day	58.0
Initial setting time (mins)	180
Declared mean Alkali content (%)	0.70
Declared maximum Chloride content (%)	0.09

APPLICATIONS

- ▶ Readymix
- ▶ Soil stabilisation
- ▶ Precast
- ▶ Screeds
- ▶ Mortars
- ▶ Render
- ▶ Grouts
- ▶ Volumetric

GOOD SITE PRACTICE

- ▶ A risk assessment should be carried out before commencing any work
- ▶ It's recommended trials are undertaken when using a new type of cement. Samples and technical support are available on request for trial work
- ▶ 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 cement-uk@aggregate.com

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

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