



PORTLAND CEMENT

(CEM I 52,5N)

Our most versatile cement.

Portland cement is the most commonly used cement in the UK. It is suitable for a range of uses and is produced to consistent quality indicators. Portland cement can be used on its own or in conjunction with other supplementary materials such as Fly Ash, Limestone and GGBS. It is compatible with admixtures including plasticizers and air-entrainers.

FEATURES

- ▶ Quality controlled to conform to BS EN 197-1
- ▶ High performance at all ages (from <1d to 28d)
- ▶ Versatile for use with a range of admixtures and additions

GOOD SITE PRACTICE

- ▶ A risk assessment should be carried out before commencing any work
- ▶ We recommend that trials are undertaken when using a new source of cement. Samples are available on request for trial work and technical support is available
- ▶ To maintain strength the water/cement ratio should be kept low and admixtures should be used to achieve the required workability
- ▶ The use of cementitious additions e.g. Fly Ash and GGBS will affect overall strength and workability
- ▶ Concrete should be placed by experienced contractors who have the correct training

TECHNICAL DATA (TYPICAL PERFORMANCE)

Compressive Strengths (Mpa)	
2-day	32.5
7-day	48.0
28-day	61.0
Setting time (mins)	135
Declared mean alkali content (%)	0.75
Declared maximum chloride content (%)	0.09

APPLICATIONS

- ▶ Structural concrete
- ▶ Precast concrete
- ▶ Readymix concrete
- ▶ Highway applications
- ▶ Sprayed concrete
- ▶ Grouts & mortars
- ▶ Screed

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

- ▶ Trials should take place to ensure the correct cement content and water:cement ratio for the application
- ▶ 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 cement cannot be held responsible where workmanship has not been carried out in accordance with good practice
- ▶ Slight variations in colour may occur due to variations in the raw materials

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

Cauldon Plant, Yelsway Lane,
Stoke-On-Trent, Staffordshire, ST10 3EQ
Visit: www.aggregate.com

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