



PREMIUM Portland Limestone Cement

CEM II/A-L 42,5N
(Normal Hardening)



CEMCOR Premium Cement is a quality CEM II cement available in paper or weatherproof plastic packaging.

Quality assured with third party Certification, CEMCOR Premium Cement combines the environmental Benefits of our lowest embodied carbon product with a higher strength Class than our general purpose cement. It is ideal for building Applications and DIY jobs where higher strength is required.



Quality

The quality of all Premium cement produced by CEMCOR is guaranteed to meet the full requirements of BS EN 197-1 and is independently certified by the British Standards Institute.

The product is CE and UKCA marked for use in the United Kingdom and EU. The incorporation of limestone fines in the manufacturing process reduces the Portland cement clinker content, resulting in a lower level of carbon intensity than CEM I alternatives while retaining high levels of technical performance.

Applications

CEMCOR Premium Cement is particularly suitable for applications where higher strength is required including:

- Any building application including site-mixed concrete, mortar, plastering and screeds.
- Perfect for DIY and repair applications.

For best performance, concrete, mortars and grouts containing CEMCOR Premium must be specified and used correctly.

Available in

- 25 kg paper (Premium) or weatherproof packaging (Premium Plus).
- 1.5 tonne (60 bag) pallets

Storage

Packed cement should be stored in dry conditions to prevent premature deterioration of the product or of the reducing agent incorporated for control of soluble chromium (VI).

Health & Safety

Cement is irritating to eyes, respiratory system and skin. A detailed Safety Data sheet is available from CEMCOR on request or for download from www.cemcor.com

Advice & Information

Further information and advice on this product and the wider CEMCOR range is available at www.cemcor.com or by calling **028 8676 7200**.

Typical Properties

The requirements of BS EN 197-1 for CEM II/A-L 42,5N Premium cement are below compared with typical performance data. The following data is for guidance only, not to be used for specification purposes. Additional information is available from CEMCOR on request.

Physical Properties

| Property | Requirement | Typical Range |
|-----------------------------------|----------------|---------------|
| Surface Area (m ² /kg) | - | 300 - 350 |
| Initial Setting Time (mins) | ≥ 75 | 130 - 180 |
| Soundness (mm) | ≤ 10 | 0 - 2.0 |
| Compressive Strength | | |
| 2 Day | ≥ 10.0 | 18.0 - 24.0 |
| 7 Day | | 35.0 - 40.0 |
| 28 Day | ≥ 42.5, ≤ 62.5 | 48.0 - 53.0 |

Chemical Properties

| Element | Symbol | Unit | Requirement | Range |
|----------|--------------------------------|------|-------------|-------------|
| Silica | SiO ₂ | % | | 18.0 - 20.0 |
| Alumina | Al ₂ O ₃ | % | | 4.0 - 6.0 |
| Iron | Fe ₂ O ₃ | % | | 2.0 - 3.0 |
| Calcium | CaO | % | | 58.0 - 62.0 |
| Sulphur | SO ₃ | % | ≤ 3.5 | 2.7 - 3.2 |
| Chloride | Cl | % | ≤ 0.10 | 0.01 - 0.08 |

Other Properties

| Element | Symbol | Unit | Requirement | Range |
|----------------------|----------------------|------|-------------|-------------|
| Tricalcium Aluminate | C3A | % | | 8.0 - 10.5 |
| Loss on ignition | | % | | 3.0 - 8.0 |
| Insoluble Residue | | % | | < 5.0 |
| Alkali | Eq Na ₂ O | % | | 0.55 - 0.75 |