

BULK CEMENT PRODUCTS GUIDE





**MAKING CEMENT
FOR THE UK MARKET
SINCE 1957.**

The right range of products
for every project.

We've been making cement for the UK market since 1957, but that hasn't stopped us constantly innovating. Today, we offer a range of specialist bulk construction materials to help you deliver the perfect build.

Used for projects both large and small, our products are proven to stand the test of time, bringing quality and outstanding performance as standard. From ordinary portland cement through to lower carbon cement, whenever you need a bulk material or specialist additive, we have the right range of products to help.

WELCOME TO
HOLCIM CEMENT.

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Left: Our Caudon Cement Manufacturing Plant
This page: Caudon Cement Works, Caudon Quarry

**We're going for net zero
manufacturing by 2050.**

Decarbonisation is critical to the continued growth of the UK building industry, and we're committed to accelerating the development and use of lower carbon solutions.

Working with our global specialists, academia and Government partners, we're leading green innovation through the use of alternative raw materials and more energy efficient production processes.

Our ambition is for our manufacturing to be net zero by 2050.

**LEADING GREEN
PRODUCT INNOVATION.**

**MOVING
TOWARDS
A LOWER
CARBON
PRODUCT
PORTFOLIO.**

PLEDGE TO NET ZERO
is backed by Science
Based Targets.



SCIENCE
BASED
TARGETS

**AIMING FOR NET ZERO
BY 2050**





Heating our kiln
with non-fossil fuels.

When it comes to energy innovation, we continually explore solutions to create long-term value for our customers’ businesses, reduce our carbon footprint and promote a circular economy.

To maintain essential energy levels for our kiln, our on-site alternative fuels facility powers our journey, operating around the clock to ensure a steady stream of non-fossil fuel energy. By harnessing construction demolition waste and other cutting edge alternatives, we generate over 70% of our heat from these sustainable sources. Our ambitious vision is to fuel our kiln entirely with alternative energy by 2030.

POWERED BY
ALTERNATIVE ENERGY.

OUR IN-HOUSE
ENERGY PARTNER.

holcim.co.uk/geocycle

Our on-site Geocycle facility provides a range of alternative fuels plus alternative raw materials to make lower carbon products for our customers.

WE AIM TO
FUEL OUR KILN
ENTIRELY WITH
ALTERNATIVE
ENERGY BY 2030.



End-to-end delivery with outstanding reliability.

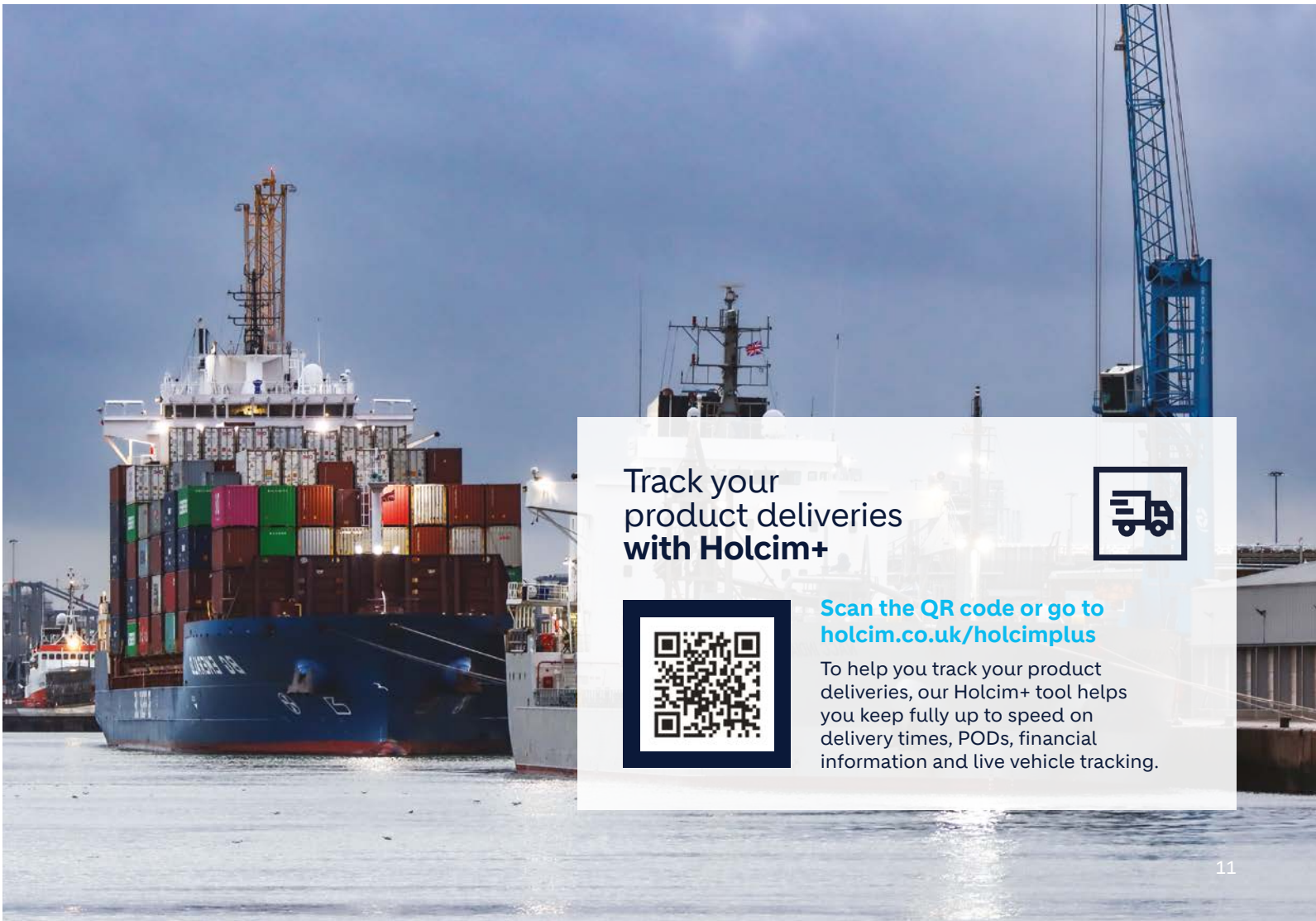
We offer a robust and continuous product supply through both local manufacturing and a dedicated, nationally dispersed imports network.

Wherever our customers and projects are located, we offer UK-wide distribution, providing end-to-end delivery with outstanding reliability.

As part of our long term commitment to more sustainable transport we have a phased investment programme focused on green logistics. Our first HVO biofuel and electric trucks are already on the road - with many more to follow - lowering the transport related carbon impact of our cementitious products.

LOWER CARBON FROM PRODUCT TO DELIVERY.

A LONG TERM COMMITMENT TO SUSTAINABLE TRANSPORT.



We pride ourselves on offering quality products you can rely on.

All our cements are compliant with relevant British and European Standards and are manufactured in accordance with ISO 9001 and ISO 14001. We have a dedicated in-house laboratory at our UK cement works in Stoke-on-Trent, and continually test our products as well as the materials used in the manufacturing process.

Our chemical scientists and laboratory technicians work hard to ensure that our specialist binders are delivering on all the strength, durability, performance and setting times required.

CEMENT SET ON MAKING A DIFFERENCE.



**MATERIALS
COMPLIANT
WITH BRITISH
AND EUROPEAN
STANDARDS.**





**MAKING
SUSTAINABLE
CONSTRUCTION
A REALITY.**

A PRODUCT FOR EVERY JOB

Our bulk cement range.

As one of the UK's leading cement suppliers, our solutions have been used on some of the most iconic projects in the country.

We support the construction industry with an extensive portfolio of innovative and sustainable bulk cement products for both general and specialist use. From cement perfect for precast concrete product manufacturing and readymix applications through to specialist binders, whatever your bulk product needs, we can help.

To find out more, you can browse this bulk cement guide, or contact our technical team for support. Samples and testing are available as standard for all our customers.

Find out more



holcim.co.uk/cement

Visit our website to view our full range of products

01538 309461

Call this number for product assistance

uk-cement@holcim.co.uk

Email our technical team for product guidance

Whatever your bulk product needs, we have the right blend for your project.



EcoPlanet Endure Cement

A lower carbon, sulfate resistant solution



TerraCem Soil Stabiliser

The hydraulic binder for soil stabilisation works



SustainaCem Binder

The perfect partner for concrete products manufacturing



Portland Limestone Cement

Reduced alkali, high strength cement



Portland Cement

High strength cement for multiple applications



Super White Cement

Bright white cement mix ideal for architectural concrete

ECOPLANET ENDURE CEMENT

The lower carbon, sulfate resistant solution*

With 30% less carbon than any other Portland cement currently available in the UK, ECOPlanet Endure offers the perfect combination of eco credentials and great performance.

Giving a higher level of sulfate resistance, this versatile low carbon cement is ideal for precast, piling, drainage or volumetric concrete production and below ground concrete works. Offering optimal strength

and durability, ECOPlanet Endure gives enhanced longevity through its proven protection against chloride ingress, corrosion and weathering. Its moderate heat of hydration reduces thermally-induced concrete stress and risk of cracking.

Once mixed, the solution provides a smooth concrete or mortar composition with a moderate setting time for easy installation, with improved pumpability and placement.

Why Terracem Soil Stabiliser?

Lower
carbon impact

Higher
sulfate resistance*

Enhanced
longevity



* If used in accordance with BS 8500 requirements for sulfate resistant concrete

Technical data

Compressive Strength (Mpa)

1 Day	12.5
2 Day	21.0
7 Day	36.0
28 Day	59.0
Setting Time (mins)	180



Ideal for

- ✓ Piling
- ✓ Drainage
- ✓ Precast concrete
- ✓ Volumetric & below ground works

IDEAL FOR PRECAST PILING,
DRAINAGE OR VOLUMETRIC
CONCRETE PRODUCTION
AND BELOW GROUND
CONCRETE WORKS.

30%

Less embodied
carbon

NEW CEMENT MIX DESIGN TRIMS DOWN CARBON & COSTS FOR CLIENT FP MCCANN.

The challenge

FP McCann set us a challenge to improve the carbon content of their below ground concrete products. Having previously used a CEM II/B-V cement in their mix design, they were keen to work with us to explore alternatives to reduce environmental impacts.

The new mix was to be used for steel reinforced culverts and tunnels for underground construction, therefore the design solution had to be both sulfate and chloride ingress resistant.

The solution

Our experts recommended ECOPlanet Endure. With 30% less carbon than the lowest carbon footprint CEM I currently available in the UK, our ECOPlanet CEM III/A blend brings together the perfect combination of eco credentials and exceptional performance. Offering low alkali levels plus a high sulfate resistance, this versatile cement is also suitable for a wide range of applications, and is particularly ideal for below ground works.



Client
FP McCann

Product used
EcoPlanet Endure

Location
Middlewich

“

The design collaboration between Holcim and FP McCann has realised significant improvements for our below ground precast product range. The Holcim technical team really added value on this project, working with us through the design and trial phases of the new mix development. Ultimately this has helped us to achieve major carbon savings, while exceeding all quality and performance requirements. We couldn't have asked for a better result. ”

Paul McCann,
Managing Director at FP McCann



Left and this page: Our EcoPlanet Endure undergoing testing in our laboratory

TERRACEM SOIL STABILISER

Hydraulic binder for soil stabilisation works

Designed to strengthen existing on-site material without the need to import aggregates, TerraCem has been specially engineered to modify and improve soils, strengthening weak substructure layers to create a more robust working platform.

Our advanced cement blend offers a much more sustainable soil stabilisation solution, with 15% less embodied carbon than a standard Portland cement alternative.

Plus, using TerraCem helps to reduce materials waste and the carbon emissions associated with hauling aggregates.

With a faster setting period for an even quicker installation, TerraCem works well with a variety of soil types, including sands, gravel, clay, peat and silt. It's the ideal solution for treating unsuitable or unstable soil.

Why Terracem Soil Stabiliser?

- Lower**
carbon impact
- Strengthens**
existing on-site material
- Improved**
static load & freeze thaw resistance



Technical data

Compressive Strength (Mpa)

1 Day	15.0
2 Day	25.0
7 Day	35.0
28 Day	40.0
Setting Time (mins)	140
Standard Consistency (%)	28.6



Ideal for

- ✓ Rail Platforms
- ✓ Roads
- ✓ Airports
- ✓ Harbours

SPECIALLY ENGINEERED
TO MODIFY AND IMPROVE
SOILS, STRENGTHENING
WEAK SUBSTRUCTURE
LAYERS.



15%
Less embodied
carbon

SUSTAINACEM BINDER

The perfect partner for concrete products manufacturing

Reduce the carbon footprint of your precast concrete products with SustainaCem, our lower carbon binder.

SustainaCem is a cost-effective, sustainable solution, giving a 15% reduction in embodied carbon compared to ordinary Portland cement. As its pre-blended, no additions are necessary, though the product is compatible

with admixtures. In semi-dry applications it maintains density, giving comparable early age strengths against CEM I 52,5N for long lasting performance.

Lighter in colour, SustainaCem also provides an aesthetic advantage for manufacturers seeking to create a greater breadth of colour range.

Why SustainaCem Binder?

- Lower** carbon impact
- Pre-blended** no fillers needed
- Lighter colour** for better aesthetics



Technical data

Compressive Strength (Mpa)

1 Day	15.0
2 Day	25.0
3 Day	35.0
28 Day	40.0
Setting Time (mins)	140
Standard Consistency (%)	28.6

Ideal for

- ✓ Paving
- ✓ Blocks
- ✓ Roof Tiles



REDUCE THE CARBON
FOOTPRINT OF YOUR
PAVING WITH OUR
LOWER CARBON
CEMENTITIOUS BINDER.



15%
Less embodied
carbon

PORTLAND LIMESTONE CEMENT

Reduced alkali, high strength cement

Our Portland Limestone Cement is perfect as a lower carbon cement replacement for Portland Cement, meeting all requirements for design chemical classes 1 & 2. It can also be blended with GGBS or PFA to meet the requirements for classes 3 & 4.

This high strength CEM II/A-L 52,5N is quality controlled to conform to BS EN 197-1. Its lighter grey colour makes it perfect for

architectural projects, as well as for precast concrete, readymix, screed, mortar, render, grouts and volumetric production.

Portland Limestone Cement can be used with all admixtures and additives, has a reduced alkali content, and is more resistant to bleed, with better cohesion and workability.

Why Terracem Soil Stabiliser?

- Lower carbon impact
- Higher strength
- Fully compliant BS EN 197-1



Technical data

Compressive Strength (Mpa)

2 Day	31.0
7 Day	47.0
28 Day	58.0
Setting Time (mins)	180
Declared mean alkali content (%)	0.70
Declared maximum chloride content (%)	0.07



Ideal for

- ✓ Readymix
- ✓ Mortars & Screeds
- ✓ Precast
- ✓ Volumetric

SLIGHTLY LIGHTER IN COLOUR, IT IS IDEAL FOR ARCHITECTURAL CONCRETE PROJECTS.



15%
Less embodied carbon

PORTLAND CEMENT

High strength CEM I for multiple applications

Ordinary Portland Cement (OPC) is a high strength cement suitable for a wide variety of applications. This CEM I 52,5N material is fully compliant with BS EN 197-1, and is locally manufactured to the highest quality standards to ensure material consistency.

With a high strength performance at both 7 and 28 days, this versatile cement is perfect for structural concrete, readymix or precast

concrete manufacturing purposes, as well as being ideal for grout, mortar, render or screed production.

Can be blended with other materials such as fly ash, GGBS, or admixtures including plasticizers, retarders and air-entrainers.

Why Terracem Soil Stabiliser?

- Locally manufactured
- Higher strength
- Fully compliant BS EN 197-1



Technical data

Compressive Strength (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 (%)	0.07



Ideal for

- ✓ Foundations
- ✓ Highway Applications
- ✓ Tunnelling

A VERSATILE CEMENT
PERFECT FOR STRUCTURAL
CONCRETE, READYMIX
OR PRECAST CONCRETE
MANUFACTURING
PURPOSES.

52,5N
High strength
cement

SUPER WHITE CEMENT

Bright white cement mix ideal for architectural concrete

Our white cement contains no pigments and is perfect for projects where a bright white finish is required, such as paving slabs, street furniture, terrazzo flooring and other decorative work.

It's also perfect for architectural precast applications where a vibrant colour finish is desirable. The product's early high strength

also enables precast moulds to be removed sooner without the loss of product integrity.

Used in the same way as ordinary Portland cement, our white cement mix contains no pigments, which can be added as required. The product is fully compatible with BS EN 197-1, ensuring absolute quality and consistency.

Why Terracem Soil Stabiliser?

- Easy to use
- Premium strength
- Fully compliant BS EN 197-1



Technical data

Compressive Strength (Mpa)

2 Day	36.0
28 Day	62.0
Setting Time (mins)	80
Declared mean alkali content (%)	0.60
Declared maximum chloride content (%)	0.06



Ideal for

- ✓ Architectural pre-cast concrete
- ✓ Street furniture
- ✓ Paving slabs & terrazzo flooring

A PRODUCT DESIGNED TO
LIGHTEN AND BRIGHTEN
CONCRETE OR MORTARS.



52,5R
High strength
cement

GET IN TOUCH.

**For further product or
technical information.**

Visit us at:

holcim.co.uk/cement

Contact us on:

01538 309461

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