



DRY SILO MORTAR



Holcim Dry Silo Mortar is delivered directly to site following a comprehensive pre-delivery site assessment conducted by a member of our sales team. The mortar is supplied in one of our purpose-built silos, each featuring a state-of-the-art mixing unit that offers significant performance advantages over conventional systems.



Silos can be customised with your company branding and are fitted with advanced sonar level sensors, providing real-time stock monitoring linked to both your site and our central system—helping to ensure continuous supply and minimise the risk of running out.

Delivery, installation, and operator training are carried out by our dedicated technical team, ensuring consistent, high-quality mortar is available on demand—day in, day out—at the touch of a button.

TECHNICAL INFORMATION

Materials and Manufacture

Holcim Dry Silo Mortar consists of fine dried aggregates (0–2 mm), cementitious materials and admixtures. All mortars are manufactured using our state-of-the-art, computer-controlled production facilities.

Carefully selected materials are blended at our plant to ensure consistency and compliance with your project specifications. All constituents are responsibly sourced under our BES 6001 accreditation for the responsible sourcing of construction products.

Product Conformity

Holcim Mortars use responsibly sourced constituent materials conforming to the following British and European Standard specifications:

Table 1: Composition

COMPONENT	RELEVANT STANDARDS
Cementitious Material	BS EN 197-1, BS 7979
Fine Aggregates	BS EN 12139
Admixtures	BS EN 934

Holcim Mortars hold certificate BES 650688 under BES6001 for responsible sourcing of construction products.

Table 2: Density and Strength

Density (tested in accordance with BS EN 1015 and BS 4551)

CONDITION OF MORTAR	DENSITY (KG/M ³)
Fresh (Wet)	1700 – 1900
Set and Air-Dried	1550 – 1750

Table 3: Compressive Strength

(tested to BS EN 1015-11 using prisms)

MORTAR CLASS (BS EN 998-2)	COMPRESSIVE STRENGTH (N/MM ²)
M4 (iii)	4
M6 (ii)	6
M12 (i)	12

All of the test results are independently verified by a UKAS accredited laboratory.



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Fire Classification

Holcim Dry Silo Mortar contains less than 1.0% organic material and is classified as Class A1 (non-combustible) under BS EN13501-1 without the need for testing (Commission Directive 96/603/EC).

Selection of Mortar

Reference should be made to the latest codes of practice prior to selecting a mortar type for a specific application. Use Table 3 for strength guidance. Additional advice is provided in BS EN1996 Eurocode 6 and PD 6697.

Strength & Durability

When correctly specified and applied in line with current codes of practice, Holcim mortars are designed to meet the full service life of the structure. Our rigorous quality control ensures that all mortars exceed minimum strength requirements. Chloride-free, air-entraining admixtures are included to improve plasticity, reduce bleeding, and enhance frost and long-term freeze-thaw resistance.

Site Application and Performance

Holcim Dry Silo Mortars are supplied by dry weight. When mixed on-site, 1 tonne yields approximately 0.70 m³ of wet mortar. Consistency can be adjusted to suit different masonry units.

Coverage Guidance:

- 1 tonne lays approximately 800 blocks (450 × 225 × 100 mm, laid on edge)
- Or approximately 1000 - 1400 bricks, depending on size and specification, depth of frog, size of perforations and site practices.

Silos hold approximately 30 tonnes, with levels monitored in real time via sonar level sensors. Refills are carried out by our dedicated fleet of tankers, each refill delivery is a maximum of 19 tonnes. We also have articulated tankers which can deliver up to 30 tonnes.

Delivery and Installation

A detailed site survey will be undertaken by a member of the Holcim Mortars team ahead of delivery to confirm all site requirements. Our silos require only a single-phase mains electricity supply.

Delivery is carried out by our specialist team, who also provide full on-site induction and operational training. The innovative mixer design minimises cleaning and maintenance, with ongoing support available from our technical team.

Health and Safety

Standard health and safety practices for cementitious products must be observed, particularly regarding skin contact. All delivery, installation and refill procedures are covered in our Health & Safety documentation: RA38 and RA40, which will be supplied

Policies

Holcim policies on the environment and community, health and safety and sustainable solutions for different product applications can be viewed on our website www.holcim.co.uk

Coshh Data

Full COSHH data is available on request. Please call **01978 846976** for more information.

Technical Support

Further information and technical guidance is available through the sales office. Please call Holcim Mortars technical services on **01978 846976**.

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