

Manufacturer and authorised representative: Sigmaroc Cemfree

Herewith declare that the product Cemfree Masonry Mortar is in conformity with the provisions set out below when used in accordance with the instructions contained in the product documentation:

Cemfree Masonry Mortar TDS

And the standards referenced below have been applied:

- BS EN 998-2 Specification for mortar for masonry
- BS EN 1075-7 Methods of test for mortar for masonry. Determination of air content of fresh mortar
- BS EN 1075-9 Methods of test for mortar for masonry. Determination of workable life and correction time of fresh mortar
- BS EN 772-22 Methods of test for mortar for masonry. Determination of freeze / thaw resistance of clay masonry units
- BS EN 1075-10 Methods of test for mortar of masonry. Determination of dry bulk density of hardened mortar
- BS EN 1015-17 Methods of test for mortar for masonry. Determination of Chloride Ion Content
- BS EN 1075-11 Methods of test for mortar of masonry. Determination of flexural and compressive strength of hardened mortar
- BS EN 1075-18 Methods of test for mortar for masonry. Determination of Water Absorption
- BS EN 1745 Determination of Thermal Conductivity & Water Vapour Permeability
- BS EN ISO 9007: 2075 Quality management systems

Description of product

- 1.1 Cemfree Masonry Mortar contains no Portland cement; it is an Alkali Activated Cementitious Material (AACM) 3-part sand to l-part binder; 95% Ground Granulated Blast Furnace Slag (GGBS) 5% Cemfree activator.
- 1.2 Cemfree Masonry Mortar is an ultra-low carbon alternative to traditional mortars. It offers the same characteristics of traditional mortars with excellent workability, reduces the environmental impacts related to resource depletion, global warming potential (GWP) and waste to landfill, supporting the drive to a more circular economy.

Provisions to which the product conforms

| Physical & Mechanical Properties | | |
|--|---------------|--------------------|
| Property Tested | Average Value | Test Method |
| Compressive Strength (N/mm ²) | 4.8 | BS EN 1015-11 |
| Workable Life (min) | 330 | BS EN 1015-9 |
| Air Content (%) | 18 | BS EN 1015-7 |
| Bulk Density of hardened mortar (kg/m ³) | 1670 | BS EN 1015-10 |
| Chloride Content (%) | <0.01 | BS EN 1015-17 |
| Water Vapour Permeability (μ) | 15/35 | BS EN 1745 |
| Water Absorption (Kg/m ² min ^{0.5}) | 0.82 | BS EN 1015-18 |
| Thermal Conductivity (W/m.K) | 0.61 & 0.66 | BS EN 1745 |
| Bond Strength (N/mm ²) | 0.15 | Declared Tabulated |
| Reaction to Fire | Euroclass A1 | Declared |
| Durability against Freese Thaw | Passive | BS EN 772-22 |

Batch or serial number

M4 Cemfree Masonry Mortar

Storage & handling

Cemfree Mortar should be stored in dry 25kg or bulk bags off the ground, or in dry mortar silos and must be handled according to the Material Safety Data Sheets (MSDS).

Personal protective equipment

Cemfree Mortar must be handled in line with up-to-date H&S guidelines. Please refer to Cemfree Mortar MSDS for further information.

Contact us

For further information regarding Cemfree, please contact our Cemfree commercial team.

Manufacturer and authorised representative:

Name: Jane Ghosh

Position: Concrete technologist

Date: 28/09/2023

Revisions

| Version History | | | | |
|-----------------|----------------|---|--------|----|
| Date | Description | Revision | Author | QC |
| 07/06/2022 | Final Document | N/A | KW | HR |
| 10/11/2023 | Amendment | Format, units, air content and water absorption | JG | |

Legal terms & disclaimer

The information and data contained herein is believed to be accurate and reliable. Specifications and other information contained within this Declaration of Performance (DoP) supersedes all previously printed material and is subject to change without prior notice.