

Cemfree- Alkali activated binder

Product description

High Ground Granulated Blast Furnace Slag (GGBS) alkali-activated binder with low heat of hydration.

Applications

- Female Piles
- Agricultural
- Industrial flooring
- Precast
- Mortars
- Screeds
- Decorative concrete
- Temporary works

Key benefits

- Reduces the embodied carbon of concrete produced
- Supports the circular economy by reducing need for raw materials and waste to landfill
- Reduces the water footprint of concrete by between 40 - 60%
- Low heat of hydration



- Extended open life

- Enhanced chemical resistance and performance in aggressive ground conditions
- Good flow and self-compacting characteristics with low w/b
- Increased aesthetics - whiter than OPC

Relevant Standards

PAS 8820:2016

Mixing instructions & performance

- Batched the same way as ordinary concrete through ready-mix batching / volumetric
- Concrete mix design varied to suit individual circumstances.
- Trial mixes strongly recommended prior to work to ensure the mix design and material combinations meet requirements of specification and method of use
- Good concreting practice is essential and must be maintained when placing Cemfree
- Must be placed without segregation, fully compacted and correctly cured in accordance with industry and Cemfree's guidelines

Curing methods

The term ‘curing’ refers to methods to prevent loss of moisture from exposed surfaces of concrete in the first 7 days after casting.

The most common methods are:

- Covering with impermeable sheeting ensuring that edges are held down
- Covering with wet sacking but this must be kept wet by spraying with clean water
- Spraying with a proprietary curing membrane

Binder contents

Cemfree		
Raw material	GGBS - Ground Granulated Blast Furnace Slag	95%
	Cemfree activator	5%

Technical data

Reports of tests providing data on fineness, setting times, soundness, chemical composition and compressive strengths of mortar prisms, are available on request.

Technical services

For further assistance, please contact the Cemfree technology department or sales team on 01954 780 687.

Legal terms & disclaimer

Cemfree should only be installed once the site ground conditions are suitable to receive the product. Please consult Cemfree for special installation guidelines.

The information and data contained herein is believed to be accurate and reliable. Specifications and other information contained within this ‘TDS’ supersede all previously printed material and is subject to change without prior notice. Please refer to DB Group Holdings Limited terms and conditions.

Storage & handling

Cemfree should be stored in silos and handled according to the MSDS.

Binder should be stored for a maximum of 3 months before an additional QA process is undertaken to confirm product performance.

Personal protective equipment

Cemfree must be handled in line with up-to-date H&S guidelines.

Please refer to Cemfree MSDS for further information.