



Hanson Quickcem technical data sheet

Hanson Quickcem is manufactured to a proprietary Technical Specification and is a Portland cement containing calcium sulfo-aluminate and special additives, developed to give quick setting and hardening characteristics. At present there is no appropriate British standard for this product.

Applications

Hanson Quickcem is an ideal cement for repair and maintenance applications where the increased rate of set and strength development are beneficial in both mortar and concrete, allowing normal services to be brought back into operation after only a few hours. Hanson Quickcem is suitable for:

- fixing manhole covers
- fitting ridge tiles
- patch repairs
- concrete paths/steps
- repairing rendering and floor screeds
- fixing fence posts and railings

Depending on the mix used and the ambient temperature, workability will be retained for between 10 and 20 minutes. It is important that the concrete, mortar or screed is made without prolonged mixing and is placed and fully compacted as soon as possible after mixing. (The amount of materials mixed in any one operation should be small enough to ensure that all the material can be used and the mixing equipment thoroughly cleaned out before the mix has set.)

Note: The rapid setting nature of this product makes it unsuitable for large concrete slabs or large screed areas as they cannot normally be placed and finished in the available time.

CEM I Portland Cement (PC) may be added, although setting times and strength may change depending on the quantity of CEM I Portland Cement added.

Concrete mix design needs to be varied to suit individual circumstances. For further advice please call the Hanson Cement Customer Services on 0330 123 2074.

Typical properties	
Surface area	550m ² /kg
SO ₃	8.5%
BS EN 196-3 (w/c @ 0.4) setting time	7mins
BS EN 196-1 mortar strengths at:	
1 hr	7N/mm ²
4 hrs	13N/mm ²
8 hrs	14N/mm ²
1 day	16N/mm ²
2 days	24N/mm ²
7 days	35N/mm ²
28 days	40N/mm ²
Air content (BS EN 196-1 mortar)	6%
Colour (Tri-stimulus Y)	34%

Quality

Hanson Quickcem is manufactured under a system of Factory Production Control based on BS EN ISO 9001 and constant monitoring of all components ensures consistent quality.

Suitable mix for Quickcem in concrete.

Material	Proportions by volume	Yield per 25kg bag of cement	Batch weights per cement bag
General purpose mix – For most uses except for foundation work and outdoor paving			
Castle Quickcem	1	0.08m ³	25kg
Concreting sand	2		55kg
20mm aggregate	3		90kg
(combined aggregates)	(4)		(145kg)
Foundation mix – For footings, foundations and bases for precast paving			
Castle Quickcem	1	0.09m ³	25kg
Concreting sand	2.5		65kg
20mm aggregate	3.5		105kg
(combined aggregates)	(5)		(170kg)

It is strongly recommended that trial mixes are carried out prior to commencement of work to ensure that the mix design and material combinations meet the requirements of the specification and method of use.

Suitable mix for Hanson Quickcem in screed

Material	Proportions by volume	Yield per 25kg bag of cement	Batch weights per cement bag	Batch weights for 1m ³ (approx)
Cement	1	0.06m ³	25kg	16 bags
Dry screeding sand	3.5	–	112.5kg	1800kg

Suitable mix for Hanson Quickcem in mortar

Material	Proportions by volume
Designation (III) mortar for general construction	
Castle Quickcem	1
Building sand	5 - 6 plus air-entraining admixture if required
Notes: Mortar should be mixed for a minimum of two minutes before use. Remixing after the mortar has begun to set results in a decline in strength development. Therefore only batches which can be used within the expected working time should be mixed.	

It is strongly recommended that trial mixes are carried out prior to commencement of work to ensure that the mix design and material combinations meet the requirements of the specification and method of use.

Admixtures

Preliminary tests are recommended before the use of additives or a change in the type of sand.

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