

Blastfurnace cement CEM III/B 32,5 N – LH/SR

Märker Portland Cement CEM III/B 32,5 N –LH/SR is produced by mixing cement with a selected blastfurnace slag meal, optimised and matched to each other. Granulated blastfurnace slag, which is obtained during iron smelting, has latent hydraulic properties.

Because of its high granulated blastfurnace slag content, **Märker blastfurnace cement CEM III/B 32,5 N LH/SR** fulfils the requirements for the properties of a cement with high sulfate resistance (**SR**) and low heat of hydration (**LH**) as specified in EN 197.

Properties: Slow strength development - Good hardening
Low level of hydration heat development
Cement with high sulfate resistance

Applications: Production of

- Concrete, reinforced and prestressed concrete according to EN 206-1 / DIN 1045-2
- Prestressed concrete according to German norm DIN 1045-1
- Sulphate attack on concrete caused by soil and groundwater
- Concrete for massive structural components

Recommended compressive strength: C8/10 to C 30/37

In order to achieve unerringly and economically the required fresh and hardened concrete properties the concrete composition is to be determined by an initial type-testing which should take place in good time before the start of concreting.

Can be mixed with all cements complying with EN 197, but **not** with gypsum or gypsum products

Processing: In order to exploit the efficiency of the cement and to ensure the durability of the concrete components produced with it, sufficient after-treatment in accordance with DIN 1045-3 to protect against too rapid dehydration and frost must be ensured.

When working with cement, avoid contact with skin and eyes. Wearing suitable protective clothing is mandatory.

Technical standard: Cement as specified in EN 197-1

Quality control: in-house monitoring and external quality control in accordance with EN 197 by FIZ GmbH, Düsseldorf.

Supply: bulk in silo trucks, available in Lauffen

Storage: Cement should be stored under suitable dry conditions protected from moisture and humidity. Bulk goods are low in chromate for 2 months pursuant to Regulation (EC) No. 1907/2006

Development of compressive strength

Time [days]	Compressive strength [MPa]
1	ca. 3
2	ca. 8
7	ca. 20
28	ca. 45
56	ca. 55
90	ca. 60

Evolution of hydration heat

Time	Energy J/g
1 h	7
4 h	11
8 h	22
1 d	75
2 d	125
4 d	190
7 d	220

⁽¹⁾ Additional technical terms of contract and guidelines for civil engineering works (German designation: ZTV-ING)

Please refer to our current safety data sheets according to EC Regulation No. 1907/2006 for tips on handling our products. Any information, product descriptions or technical data provided in this publication is without warranty and any liability is excluded. The values in our data sheets are average values based on numerous measurements.

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