

## Component B (cement)

White composite cement in powder



### Main Characteristics

#### Description:

Main class: CEM II / A-M, White composite concrete.

Strength class: 42.5R, according to standard EN 197-1:2000.

Component B (cement) is a cement of the Portland composite type and is intended for general purpose use in concrete and concrete decorative systems for walls and floors - MARMORINO X FLOOR. It renders high overall strength and comparatively high early strength. It contains 6% microsilica of the silica fume type and 3% natural pozzolana of the rhyolite type, both intermilled. Such quantities of silica fume, together with the finely ground rhyolite, impart the cement a very strong resistance to damages caused by alkali-silica reactions, that could possibly occur in alkali-reactive aggregates in concrete at heavy moisture loads. Comparatively, the microsilica enhances the strength of concrete and, furthermore, reduces its permeability. A resulting low water absorption of properly formulated concrete generally imparts a strong resistance to deteriorating effects such as freeze-thaw effects, as well as dissolved chloride ions and carbon dioxide, both of which can cause corrosion of reinforcing steel.

Below are typical physical property and composition values as well as requirements as and where specified according to EN 197-1:2000 for the cement class.

### Technical characteristics

Physical properties:	Component B (Cement)	CEM II / A-M	UNIT
Density	3,05		g/cm <sup>3</sup>
Fineness particle surface (Blaine)	4600		cm <sup>2</sup> /g
Fineness retained on a 45 µm sieve	14		%
Expansion (Le Chatelier)	1	≤10	mm
Initial setting time (Vicat)	110	≥60	minutes
Compressive strength after 2 days	25	≥20	Mpa
Compressive strength after 28 days (cf. EN 196)	54	≥42.5; ≤62.5	Mpa



## Chemical composition

Physical properties:	Component B (Cement)	CEM II / A-M	UNIT
SiO <sub>2</sub>	25,4		%
Al <sub>2</sub> O <sub>3</sub>	4,8		%
Fe <sub>2</sub> O <sub>3</sub>	3,2		%
CaO (including free lime)	57		%
MgO (based on clinker analysis)	3,1		%
SO <sub>3</sub>	3,3	≤4.0	%
Cl	0,02	≤0.1	%
Na <sub>2</sub> O-eq. (based on clinker analysis)	1,5		%
Free lime (based on clinker analysis)	1,5		%

## Quality control

Component B (cement) is manufactured under the certification scheme of ISO 9001

## Delivery

Component B (cement) is a stock product available in PVC buckets, in 4 kg and 5,4 kg.

## Storage

The product should be preferably used within 12 months from date of manufacture when stored in original unopened containers and in appropriate temperature conditions.  
 Minimum storage temperature: + 5 ° C (41 ° F)  
 Maximum storage temperature: + 30 ° C (86 ° F)

## Precautionary



The product must be transported, used and stored in accordance with the standards in force regarding hygiene and safety. Let the residues dry out completely and treat them as special waste. Consult the safety data sheet for additional information

