



# TECHNICAL DATA SHEET

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**CNP PM**   
**CNP C E**

**PROMPT NATURAL CEMENT  
SAINT EGREVE (38) - FRANCE**

Certificate **CE** N° 0679-CPD-0227 (ETA-07/0019)

Marque **NF- Hydraulic binders** : **Certificate N°10.50 du 27.06.2012**

Prompt natural cement (French standard : NF P 15-314 : 1993)

Sea-water resisting cements (French standard : NF P 15-317 : 2006)

## CHEMICAL CHARACTERISTICS OF PROMPT NATURAL CEMENT

Characteristics	Test standard	Average test values	Specifications
Silica (expressed as SiO <sub>2</sub> )	NF EN 196-2	18,2 %	≥ 17
SO <sub>3</sub> content	NF EN 196-2	3,5 %	≤ 4
Loss on ignition	NF EN 196-2	9,5 %	≤ 14
Insoluble residue	NF EN 196-2	2,9 %	≤ 6
Al <sub>2</sub> O <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> ratio	NF EN 196-2	2,2 %	≥ 2,0

## PHYSICAL CHARACTERISTICS OF PROMPT NATURAL CEMENT

Characteristics	Test standard	Average test values	Specifications
Specific gravity	Internal method	3,00 g/cm <sup>3</sup>	***
Fineness (Blaine)	NF EN 196-6	7370 cm <sup>2</sup> /g	> 5000
Initial setting time	NF EN 196-3 (*)	2,3 minutes	< 4
Soundness at 80 °C	NF EN 196-3 (*)	3,0 mm	< 15
Shrinkage on 1/1 mortar at 28 days	NF P 15-433 (*)	660 μm/m	< 1200
Heat of hydratation at 1 hour	NF P 15-436 (*)	118 j/g	70 ≤ CHY ≤ 150

## COMPRESSIVE STRENGTH ON MORTAR 1/1

Characteristics	Test standard	Average test values	Specifications
15 minutes	NF EN 196-1 (*)	5,2 MPa	> 4
1 hour	NF EN 196-1 (*)	7,8 MPa	> 6
3 hours	NF EN 196-1 (*)	9,3 MPa	> 8
1 day	NF EN 196-1 (*)	12,7 MPa	> 10
7 days	NF EN 196-1 (*)	19,7 MPa	> 14
28 days	NF EN 196-1 (*)	27,7 MPa	> 19

(\*) : Test standard mentionned, modified as specified in NF P 15-314 French standard .

Above mentioned data are average values. They may vary somehow within the limits allowed by the normative specifications.

The success of works with the cement depends on the respect of the mixture, construction and conservation for the mortar and concrete. Control if the cement is adapted to the work and the structure.

Control the compatibility of the products wich are mixed with the cement (for example admixtures...) and with the objectives.

Prompt natural cement CNP PM NF naturally requires with regulations (REACH Regulation 1907-2006) and does not need a reducing agent of soluble hexavalent chromium content.