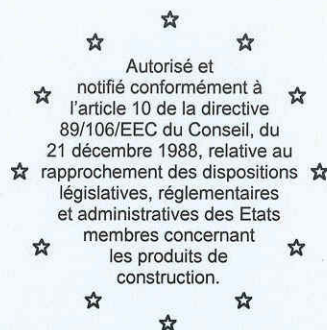


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**CSTB**  
le futur en construction

MEMBRE DE L'EOTA

## European Technical Approval      ETA-07/0019

(English translation prepared by CSTB, the original version is in French language)

Noms commerciaux:

**Trade names:**

**CIMENT NATUREL PROMPT  
PROMPT FIX-ZEMENT  
LE PROMPT VICAT  
CIMENT PROMPT VOREP PE  
PROMPT PORTE DE FRANCE GRENOBLE  
LE PROMPT  
L'UNIQUE**

Titulaire :

**Holder of approval:**

**Vicat  
France**

Type générique et utilisation prévue du  
produit de construction :

**Generic type and use of  
construction product:**

Ciment à prise rapide

**Rapid setting cement**

Validité du :  
au :

**Validity from / to:**

**09/03/2012**

**09/03/2017**

Usine de fabrication :

**Manufacturing plant:**

**Société VICAT - Usine de Saint Egrève  
1 rue du Lac – BP 207  
38522 SAINT EGREVE**

Le présent Agrément technique européen  
contient :

**This European Technical Approval  
contains:**

10 pages

**10 pages**

**This European Technical Approval cancels and replaces ETA-07/0019 with validity from 09/03/2007 to 09/03/2012.**  
Cet Agrément Technique Européen annule et remplace l'ETA-07/0019 valide du 09/03/2007 au 09/03/2012



Organisation pour l'Agrément Technique Européen  
European Organisation for Technical Approvals

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- 1 - This European Technical Approval is issued by the Centre Scientifique et Technique du Bâtiment (CSTB) in accordance with:
  - Council Directive 89/106/EEC of 21 December 1988 on the approximation of laws, regulations and administrative provisions of Member States relating to construction products<sup>1</sup>, modified by the Council Directive 93/68/EEC<sup>2</sup> and Regulation (EC) no. 1882/2003 of the European Parliament and of the Council<sup>3</sup>;
  - Décret n° 92-647 du 8 juillet 1992<sup>4</sup> concernant l'aptitude à l'usage des produits de construction;
  - Common Procedural Rules for Requesting, Preparing and the Granting of European Technical Approvals set out in the Annex to Commission Decision 94/23/EC<sup>5</sup>;
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<sup>1</sup> Official Journal of the European Communities no. L 40, 11.2.1989, p. 12  
<sup>2</sup> Official Journal of the European Communities no. L 220, 30.8.1993, p. 1  
<sup>3</sup> Official Journal of the European Union no. L 284, 31.10.2003, p. 1.  
<sup>4</sup> Journal officiel de la République française du 14 juillet 1992  
<sup>5</sup> Official Journal of the European Communities no. L 17, 20.1.1994, p. 34.

## II SPECIFIC CONDITIONS OF THE EUROPEAN TECHNICAL APPROVAL

### 1 Definition of product and intended use

#### 1.1. Definition of product

The rapid setting cement CIMENT NATUREL PROMPT is special cement that is not covered by a European standard.

The rapid setting cement is a hydraulic binder with quick set and strength rise features. Particular features are the following:

- raw materials are extracted from a single specific homogeneous geological seam,
- it is burned in a vertical kiln at  $T < 1,300^{\circ}\text{C}$  in order to obtain low quantities of very reactive aluminates (but not calcium monoaluminates) and  $\text{C}_2\text{S}$  content  $> 45\%$ ,
- it is a pure clinker without addition,
- initial setting time is between 1 and 4 minutes.

The minerals of the clinker will be declared in the "Control Plan" associated to the ETA.

This cement complies with the specifications of EN 197-1 standard except the following points presented in Table 1.

Table 1: Comparison between cement characteristics and specifications of EN 197-1

Cement properties	Specifications of EN 197-1 standard
Raw materials are extracted from a single geological seam	Clinker is a mixture of raw materials (EN 197-1, § 5.2.1)
Calcium silicates content of the clinker between 50% by mass and 2/3 by mass	Calcium silicates content $> 2/3$ (EN 197-1, § 5.2.1)
Setting time between 1 and 4 min	Setting time $\geq 45$ min (EN 197-1, § 7.1.2)
Soundness (expansion) $< 15$ mm	Soundness (expansion) $< 10$ mm
Loss of ignition $\leq 14\%$	Loss of ignition $\leq 5.0\%$

The chemical composition of this cement is very close to the one of Portland cement and it has high  $\beta\text{C}_2\text{S}$  content, favourable to the durability. Moreover, this cement has been produced and used for 150 years so its durability performance has been shown in practice.

#### 1.2. Intended use

This cement is intended to be used to produce concretes, mortars, grouts and other mixes for construction and for the manufacture of construction products with aggregates/cement and water/cement ratios lower than usually practiced with standardised common cements.

The ratios commonly used are the following:

- **Aggregates/cement ratio**

- **Mortars**

Maximum value:  $< 2.5$ ,

Usual value: between 1 and 2.

- **Concrete**

Maximum value:  $< 4$ ,

Usual value: between 2.5 and 4.

