

TYPICAL DOSES AND STANDARDS

RESTORATION OF COASTAL HERITAGE						
Topic	Application	Binder dosage (kg/m ²)	NHL (% of the total weight of binder)	Prompt Natural Cement (% of the total weight of binder)	Sand	Concrete mixture
Finishing	Coating-Stone joints	250 to 400	70 to 80 % 3.5 or 5 NHL	20 to 30 %	•	
Strengthening	Masonry reinforcement	300 to 500	50 to 75 % 3.5 or 5 NHL	25 to 50 %	•	
Floor	Paving-calade	400 to 500	50 to 75 % 5 NHL	25 to 50 %	• or	•
Mortar	Filling - Cracks repair		0 to 50 % 3.5 or 5 NHL	50 to 100% 1 Vol of binder + 1 Vol of water		
Sealing - repair	Spall Cracks Filling	500 to 800		100 % 1 to 2 Vol	• 1 Vol	

NHL/Prompt mortar: see DTU 20.1 & 26.1

MAINTENANCE AND SECURISATION OF CONSTRUCTION WORK						
Sealing - repair	Spall Cracks Filling	500 to 800		100 % 1 to 2 Vol	• 1 Vol	
Pure powder	Clogging			100 % 3 Vol + 1 Vol of water		
Concreting	Concrete	400 to 800		100 %		•

UNDERWATER WORKS						
For applications and doses, please contact us.						

Its high initial strengths and almost immediate hardening allow rapid stripping of formwork and very quick return to use, even in cold weather. To suit the application conditions and the nature of the work, the setting can be adjusted with TEMPO, citric acid for cooking.

For additional information, please contact us: cimentnature@vicat.fr

PROMPT NATURAL CEMENT,

AN EXCEPTIONAL DEPOSIT

Coming from a remarkable deposit situated in the Chartreuse Mountains, the Prompt Natural Cement is produced and marketed exclusively by the Vicat Group. For over 170 years, the burning process has remained unchanged. The stones are burnt in vertical kilns traditionally used for lime. Burning is at low temperature and across a wide thermal range (between 500°C and 1200°C). Nothing is added to Prompt Natural Cement during the production process.

Unlike hydraulic lime, the stone contains very little free lime and is not slaked after burning. This special characteristic is why it is termed natural cement as opposed to natural hydraulic lime.



La Pérelle cement plant - Chartreuse Mountains, France
Created in 1875 by Joseph Vicat



PROMPT NATURAL CEMENT (PNC) : NF P 15-314 SEA-WATER RESISTING CEMENT (SWR) : NF P 15-317



SEA-WATER RESISTANCE



DURABILITY



HIGH EARLY STRENGTH



BIODIVERSITY-FRIENDLY



PERMEANCE



AESTHETIC

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Photo credit : Jérôme Cabanel, Arcoconsulting

PROMPT VICAT NATURAL CEMENT

A durable material for marine environment





PAVING

- › Setting bed
- › Pavement joint



HISTORIC WALLS REPOINTING

- › Process suitable for all types of masonry
- › Aesthetic



STRENGTHENING & REFURBISHMENT OF HISTORIC WALLS

- › Mortar
- › Underwater concreting
- › Filling



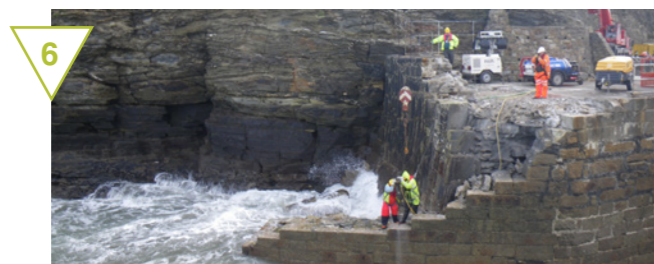
FACADE CLADDING & DECORATION

- › Intermediate coats
- › Mouldings and ornamental mouldings



MASONRY REPAIRS

- › Ramparts, ripraps and dykes repointing, pathways, boat launches
- › Filling
- › Masonry reinforcement
- › Paving



EMERGENCY INTERVENTION

- › Protection and securisation of construction work

PROMPT NATURAL CEMENT, UNIQUE CHARACTER

Its original mineralogical source gives Prompt Natural Cement properties that are perfectly suited to work in a marine environment, in particular for the restoration of coastal heritage, for the maintenance and securisation of construction work, for underwater river or maritime work and also for coastal engineering projects.

To match the application conditions and the nature of the work, its sea-water resistance as well as its high early strength on setting make work between two tides possible. Its complementarity with lime allows to produce durable mortars permeable to water vapor.



SUBMERGED & AWASH WORKS

- › Masonry repairs
- › Masonry repointing
- › Clogging
- › Repair of submerged concrete blocks
- › Ripraps restoration



- › Beacon sealing
- › Anchor sealing (anchorage area...)

PATHWAY

- › Stairs
- › Beacon sealing



WORKS FOR BIODIVERSITY PROTECTION

Prompt Natural Cement, due to its natural character, is ideal for work relating to the protection of biodiversity: creation of artificial rocks, creation of ponds for fauna and flora in artificial areas and «zone Natura 2000»



ROCKPOOL CREATION

- › Realization of concrete mini-pools storing water after the passage of the tides to study and improve biodiversity



REPAIR OF OYSTER FARMING BASINS CONCRETE

- › Filling
- › Spalling
- › Cracks