

PROJECT SHEET

Underwater Concreting and Grouting

FORT DE BRESCOU, CAP D'AGDE

THE PROJECT

Built in 1586 by the Vicomte de Joyeuse, Fort de Brescou stands on an ancient volcano off Cap d'Agde. Listed as a historic monument, it has suffered severe damage from wind and waves over centuries. For safety

reasons, it is closed to visitors. As the rocks and walls were collapsing, the city decided to start emergency conservation repairs on the eastern ramparts to allow future reopening.

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Owner _____

City of Agde

Architect _____

Frédéric Martorello

Contractor _____

SA Vermorel

Duration _____

12 months

Delivery date _____

June 2020



CNP = Prompt Natural Cement

TECHNICAL APPROACH

Underwater concreting of lower rock courses

Binder: 600 kg/m³ CNP

Mix: 3 buckets aggregate (0/12)
+ 25 kg CNP + water

Concreting upper rock courses

Binder: 500 kg/m³ CNP

Mix: 4 buckets aggregate (0/12)
+ 25 kg CNP + water

Grout for large cavities

Binder: 700 kg/m³ CNP

Mix: 1 bucket sand (0/4) + 25 kg
CNP + 25 L water

Grout for smaller cavities

Binder: 800 kg/m³ CNP

Mix: 25 kg CNP + 25 L water

Mortar for stone sealing at rampart base

Binder: 550 kg/m³ CNP

Mix: 3 buckets sand (0/4) + 25 kg
CNP + water

It is possible to use the TEMPO retarder to adjust the setting time.



VICAT ADVANTAGES

- Technical support for the client in mix design
- Compatibility of natural PROMPT cement with lime



PERFORMANCE REQUIREMENTS



**Rapid setting
underwater**



**Durability and
marine resistance**



For more information, contact Jean-Philippe Bruasse, Technical Trainer & Advisor PROMPT:

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