PROMPT VICAT
CIMENT NATUREL

PROJECT SHEET

CNRS Research Well

VILLAMBLAIN, FRANCE

THE PROJECT

The Beauce aquifer, France's largest drinking water reserve, suffers from pollution caused by human activity, with high nitrate and pesticide levels. The O-ZNS platform, managed by ISTO and CNRS, aims to study how water and contaminants flow from the soil surface to the aquifer. Its main feature is a unique 4 m diameter, 20 m deep well for real-condition studies.

Owner
CNRS

Engineering
STONO

Project Management
Antea Group-France

Contractor
Bouygues TPRF

Duration
3 months (stone installation)

Delivery date
December 2021

CNP = Prompt Natural Cement

TECHNICAL APPROACH

Horizontal joints:

Surface preparation:

→ Insert thickness spacers to ensure uniform joints

→ Moisten the surface before applying the mortar

Repair mortar preparation:

→ Mix ratio: 1 volume 0/4 sand + 1 to 1.5 volumes CNP.

→ TEMPO can be added depending on the external temperature.

→ Apply the PROMPT natural cement mortar, pressing it firmly onto the surface to ensure full adhesion across the joint area. Place the stone and adjust as needed.

Vertical joints:

Surface preparation:

→ Install an expanding foam joint on the front face to ensure waterproofing.

→ On the rear face, seal with the same horizontal joint mortar or insert a foam joint.

→ Moisten the surface.

Grout preparation:

→ Mix ratio: 15–20 L water per 25 kg bag of CNP.

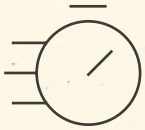
→ Fill the joints.

→ TEMPO can be added depending on the external temperature.

For further details:
Grouting project datasheet.

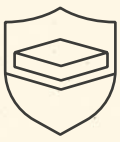
PERFORMANCE REQUIREMENTS

Compatibility with stone



Rapid setting

Waterproofing



Minimum resistance: 10 MPa

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

jean-philippe.bruasse@vicat.fr
ciment-prompt-vicat.fr