

PROJECT SHEET Grouting a Crack

LA BUISSE, ISÈRE

LE PROJET

The goal was to fill a crack in a 4.5 m-high stone retaining wall. Filling the crack with Prompt Natural Cement

grout consolidated the masonry while respecting the historic structure.



Owner _____

Private client

Contractor _____

Private client

Duration _____

2 hours

Delivery date _____

March 2020



TECHNICAL APPROACH

Preparatory work

- Clean and clear the crack of all impurities (old mortar, soil, vegetation)
- Repoint stones near the crack, leaving openings every 50 cm for funnels
- Moisten the crack before introducing grout

Grout preparation

- Mix: 1 part CNP + 1 part water + TEMPO

- Dry mix CNP and TEMPO, then add 80% water, mix, and adjust consistency
- For large volumes, use a concrete mixer

Adapt grout to substrate

- Soft substrate: 50% CNP + 50% lime
- Hard substrate: 100% CNP
- Add fine sand (0/1 or 0/2 mm) for cracks >1 cm wide

Grouting

- Introduce grout into funnel, then seal opening with CNP mortar
- Repeat until crack is filled
- Use several small batches with slight retardation to avoid masonry displacement

Warning: Grout injection pressure may force the masonry apart. It is recommended to carry out several slightly retarded batches rather than a single one. This method allows the crack to be fully filled within just a few hours.



VICAT ADVANTAGES

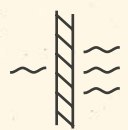
- Technical support provided for formulation



PERFORMANCE REQUIREMENTS



**Precision
and speed**



Permeance



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

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