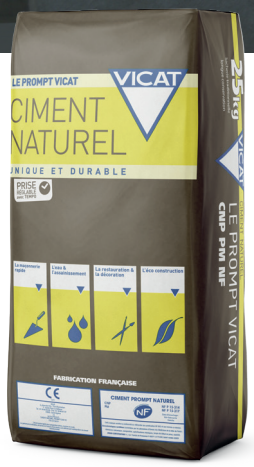
APPLICATION SHEET

Cast-in-place lintels, jambs and window sills



Strip your **lintels, jambs and window sills** quickly using PROMPT natural cement. Easily achieve the desired surface finish **(smooth, textured, bush-hammered or polished)** with a **setting time adjustable between 20 and 30 minutes**. Formwork removal is possible **one hour after casting.** Adapt your work to match the color of t**he existing or new substrate.**

IMPLEMENTATION

Equipment

- Concrete mixer or electric mixer

Materials

- PROMPT natural cement (CNP)
- TEMPO (retarder)
- Sand 0/4
- Gravel 5/10 or 5/15 or pre-mixed aggregates

ADVANTAGES OF PROMPT NATURAL CEMENT

- Rapid return to service
- Cost-effective solution: reusable formwork
- Adapted aesthetics: color and texture
- Adjustable setting time

Consumption

(for approximately 100 L of concrete)

Standard dosage
Approx. 44 kg of CNP for 87 L of aggregates

Heavily loaded structures
Approx. 60 kg of CNP for 87 L of aggregates

**1 L = 1 kg of CNP*

CNP = PROMPT natural cement

IMPLEMENTATION

Dosage

	PROMPT natural cement	Aggregate mix	TEMPO	Water	Plasticizer (optional)
Standard dosage	25 kg	50 l	*1 to 2 bottles*	8 to 12 L depending on sand moisture	1 to 1.5% of cement weight
Heavily loaded structures	25 kg	30 l	1 to 2 bottles	7 to 10 L depending on sand moisture	1 to 1.5% of cement weight

Setting time of PROMPT natural cement

Concrete temperature	PROMPT/ Aggregate dosage	10° C	20° C	30° C
Heavily loaded structures without TEMPO*	25 kg / 30 l	30 min	20 min	10 min
Heavily loaded structures with TEMPO*	25 kg / 30 l	50 min	25 min	15 min
Standard dosage with TEMPO*	25 kg / 30 l	80 min	40 min	20 min

** À titre indicatif*

IMPLEMENTATION RECOMMENDATIONS

- → Do not remix after setting has started
- → Avoid excess water
- → In cold weather: minimum application temperature 2°C, on non-frozen substrates with no frost risk during the day
- → In hot weather: avoid mixing above 30°C Work with cold water and sand stored in the shade

Substrate preparation

- → Provide appropriate reinforcement (rebar) as for conventional concrete structures
- → Oil or wax the formwork

Note: Smooth or ribbed formwork will influence the final appearance.

Installation

Position reinforcement, pour and vibrate the concrete

Formwork removal

- → 1 hour for side forms
- → 2 hours for soffit support

TIP

For large lintels:

→ Depending on the span, temporary supports (props) must be installed for 3 weeks.

If significant loads are expected, consult a structural design office.

Performance

Compressive strength (MPa*)

Time	3 h	28 days	6 month**
Standard dosage	6	20	35
Heavily loaded structures	10	25	45

*Indicative values
**Water curing

DO NOT FORGET PPE

Wear appropriate protective equipment. Contact between skin and cement paste, concrete or fresh mortar may cause: irritation, allergic reactions, burns.