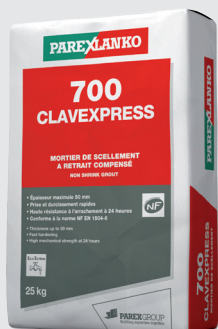


# 700 CLAVEXPRESS



1/2



### PRODUCT FEATURES

- ▶ Fast setting and hardening
- ▶ Excellent pull-out resistance after 24 hours
- ▶ High mechanical strength
- ▶ NF 030 "Sealing products" quality label

### WATER DOSAGE

- ▶ 2.5 to 3.2 litres per 25 kg bag

### REFERENCE DOCUMENTS

- ▶ CE Performance Statement
- ▶ Sealing product compliant with French Standard NF 030 AFNOR CERTIFICATION 11, av. Francis de Pressensé 93571 SAINT DENIS LA PLAINE Cedex [www.marque-nf.com](http://www.marque-nf.com)
- ▶ Standards ASTM C-642, C-672, C-682 Cat. R
- ▶ SCETAURROUTE "resistance to severe frost" test report in compliance with P 18-424

### DESCRIPTION

- Mortar composed of sand, special cement and admixtures.

### USES

- Sealing of steel rebars for reinforced concrete, anchor bolts
- Active sealing of steel rebars
- Assembly of concrete elements by wedged keying (max. thickness 50 mm)
- Notch filling
- Underpinning
- Sealing of foundation blocks and construction pillars, when made up as micro-concrete
- Caulking of bridge bearings

### SPECIFICATIONS

- **Active ingredients:** hydraulic binder free of chloride and metal particles
- **Grey powder**
- **Particle size:** 0-1 mm
- **Hardened product density in plastic consistency:** 2.1
- **Paste pH:** 12
- **Pot life at 20°C:**
  - 20 min in plastic consistency
  - 45 min in fluid consistency

### Pull-out resistance after 24 hours

Tests performed in compliance with EN 1881 (ceiling position)

- **Drill-hole diameter:** 30 mm
- **HA steel bar:** Ø 16 mm
- **Anchoring depth:** 150 mm
- **Displacement with traction of 75 kN:** < 0.6 mm
- **Maximum traction force:** 100 kN

### PERFORMANCE CHARACTERISTICS

#### Bond stress after 1 day (MPa) (1)

Substrate	Concrete	HA steel bar
Adherence	5.5	15

#### Setting time (2)

#### Fluid consistency

Temperature	+ 5°C	+ 20°C	+ 30°C
Initial setting	3 h 30	1 h 00	0 h 40
Final setting	4 h 15	1 h 10	0 h 45

#### Plastic consistency (sealing)

Temperature	+ 5°C	+ 20°C	+ 30°C
Initial setting	1 h 30	0 h 25	0 h 20
Final setting	2 h 00	0 h 30	0 h 25

#### Mechanical strength (MPa) (3)

#### Plastic consistency (sealing)

Period	1 day	7 days	28 days
Tensile/Flexural	8	10	12
Compressive	45	70	75

#### Fluid consistency

Period	1 day	7 days	28 days
Tensile/Flexural	4	7	8
Compressive	30	55	65

### INSTRUCTIONS

#### ■ SUBSTRATE PREPARATION

- Substrates must be sound, clean, cohesive and resistant and free of any loose or flaking parts.
- Soak the substrate for several hours prior to application of **700 CLAVEXPRESS**.
- Remove all residual water.

#### ■ MORTAR PREPARATION

- Sealing mortar is made up by mixing **700 CLAVEXPRESS** with clean water.
- The quantity of water used will depend upon the consistency required, i.e. plastic or fluid.
- Mix with a high-speed electric mixer for at least 3 minutes.

#### ■ PRODUCT APPLICATION

- **700 CLAVEXPRESS** can be injected using a suitable screw pump (e.g. PUTZMEISTER or similar).

# 700 CLAVEXPRESS

2/2

## PACKAGING

- ▶ 25 kg long storage bag

## STORAGE

### ▶ 12 months

from date of manufacture if stored in unopened original packing in dry conditions

## WARRANTY

- ▶ Manufacturer's liability

## ■ SEALING

- The diameter of the holes must be equal to at least the diameter of the rebar + 20 to 30 mm.
- The minimum anchoring depth must be at least 10 times the diameter of the rebar. Consideration must be given to the load that will be applied to the sealed item and the mechanical strength of the concrete substrate.
- For sealing holes with a diameter exceeding rebar  $\varnothing + 50$  mm, use **708 CLAVEX+ MB** or **709 CLAVEXPRESS MB**.
- Clean the sealing hole thoroughly and dampen the surface.
- Position the rebar in the hole and pour the mortar.
- As soon as the mortar begins to set, the exposed surface should be treated with a curing product (**742 LANKOCURING**).

## ■ WATER DOSAGE / YIELD

**700 CLAVEXPRESS** can be mixed with water content ranging from 10 to 14%, i.e. 2.5 to 3.5 litres of water per 25 kg bag.

### Dosage / Yield

**Plastic consistency (Standard NF 030 «Sealing products»)**

#### **700 CLAVEXPRESS**

Quantity	1 x 25 kg bag
Water	2.5 litres
Final volume	13 litres

### Fluid consistency

#### **700 CLAVEXPRESS**

Quantity	1 x 25 kg bag
Water	3.2 litres
Final volume	13.5 litres

**TECHNICAL ASSISTANCE:** ParexGroup S.A. will, on request, provide information and assistance to companies in relation to the specific use of a product. Such assistance shall not be assimilated with structural design and conception, nor the compliance of substrates, nor as a control of usage rules in force.

#### **TECHNICAL DATA SHEET ISSUED - September 2017**

The information provided in this document results from our knowledge of the products and our experience. Prior to application, customers and users are requested to check that they are in possession of the latest version of this document. Please check for updates at [www.parexlanko.com](http://www.parexlanko.com)

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## ■ PRECAUTIONS

- Temperature range for use: + 5°C to + 35°C.
- Protect the surface from the air when setting begins with **742 LANKOCURING**.
- The addition of hydraulic binder, sand or admixtures is strictly prohibited.
- Do not apply to a frozen substrate.
- Refer to the Safety Data Sheet.

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