

# 705 CLAVEX +



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### PRODUCT FEATURES

- ▶ High mechanical strength
- ▶ Suitable for thicknesses of 10 to 50 mm
- ▶ Excellent resistance to sea water, sulphated waters and de-icing salt
- ▶ French NF label for «Sealing & Bedding»

### WATER DOSAGE

- ▶ 2.75 to 3.87 litres per 25 kg bag

### REFERENCE DOCUMENTS

- ▶ CE Performance Statement
  - ▶ Compliance report with potable water N° 14 CLP NY 028
  - ▶ 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

### DESCRIPTION

- Ready-to-mix, shrinkage-compensating, fluid or semi-paste mortar intended for sealing and bedding purposes.
- Compliant with European Standard EN 1504-6 «Anchoring of Reinforcing Steel Bars».
- Compliant with French Standard NF P 18821 «Bedding, category 6».
- Fluid mortar/slurry
- High mechanical strength
- Chloride-free
- Pumpable

### USES

- Bedding of elements ranging in thickness from 10 mm to 50 mm
- Suitable for the bedding of bridge bearings, heavy machinery, rails etc...
- Sealing of steel rebars, tie rods, connectors (diaphragm walls) and anchoring bars
- Wedged keying of prefabricated elements
- Underpinning

### SPECIFICATIONS

- **Active ingredients:** chloride-free hydraulic binders with no metal particles
- **Grey ready-to-mix powder**
- **Particle size:** 0-2 mm
- **Paste density:** 2.2
- **Mortar pH:** 12.5
- **Pot life at + 20°C:**
  - 60 min for sealing,
  - 90 min for bedding

### Workability

- **Fluid consistency (bedding):** Marsh cone flow time: 50 sec immediately after mixing and 70 sec after leaving for 90 min
- **Plastic consistency (sealing):** Abrams ½ cone slump = 2.5 cm

### Pull-out resistance after 7 days

- Test performed in compliance with Standard EN 1881 (ceiling position)
- **Hole diameter:** 30 mm
  - **HA steel bar:** 16 mm
  - **Anchoring depth:** 150 mm
  - **Displacement with traction of 75 kN:** < 0.6 mm
  - **Maximum traction force:** 100 kN
  - **Test of suitability for placing, in compliance with NF P 18 832:** bubble surface < 5%

### PERFORMANCE CHARACTERISTICS

#### Setting time (1)

#### Fluid consistency (bedding)

Temperature	+ 5°C	+ 20°C	+ 30°C
Initial setting	21 h	6 h	6 h 30
Final setting	25 h	9 h	7 h 30

#### Plastic consistency (sealing)

Temperature	+ 5°C	+ 20°C	+ 30°C
Initial setting	11 h 00	6 h	5 h 00
Final setting	15 h 30	7 h	5 h 30

#### Mechanical strength (MPa) (2)

#### Fluid consistency (bedding)

Period	1 day	7 days	28 days
Flexural	5	8	10
Compressive	25	55	70

#### Plastic consistency (sealing)

Period	1 day	7 days	28 days
Flexural	6	10	12
Compressive	40	60	75

### INSTRUCTIONS

#### Bedding

#### ■ SUBSTRATE PREPARATION

- Substrates must be rough but sound, clean, cohesive, resistant and free of any flaking or loose parts.
- Remove all dust from the surface of the substrate.
- Soak substrate with water several hours prior to application.

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## 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

### ■ FORMWORK PREPARATION

- Make a watertight formwork around the bedding element, leaving a gap of 5 cm between the base of the element and the edge of the formwork.
- On one of the longer sides, this gap should be extended to 20 cm to allow room for pouring the bedding mortar.
- The height of the formwork will be equal to the distance between the base of the bedding element and the concrete foundation (+ 5 cm).

### ■ MORTAR PREPARATION

- The slurry or mortar is made up by mixing **705 CLAVEX +** with clean water.
- The quantity of water to use depends on the consistency required.
- For a fluid slurry, mix with a high-speed mixer for at least 3 minutes.
- For a plastic consistency, mix in a cement mixer for at least 5 minutes.

### ■ APPLICATION

- Remove all residual water.
- Pour the mortar/slurry from the longest side of the formwork by pumping, gravity or injection.
- Pour in one go and in one direction only so as to avoid trapping air.
- The choice of application method will depend upon the thickness of the bedding and the length of the bedding element.
- Incorporate ventilation holes for large-scale bedding.
- Bedding thicknesses should be between 10 mm and 50 mm.
- For larger bedding thicknesses please use **708 CLAVEX + MB**.
- As soon as the mortar begins to set, the exposed surface should be treated with a protective coating product (**742 LANKOCURING**).

### Sealing

#### ■ SUBSTRATE PREPARATION

- The diameter of the holes must be equal to at least the diameter of the anchoring bar + 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.
- Remove all dust from the surface of the substrate.
- Soak substrate with water several hours prior to application.

#### ■ MORTAR PREPARATION

- Please refer to the instructions above for «Bedding» and adapt the water content for sealing purposes.

#### ■ APPLICATION

- Fill the hole with mortar and insert the anchoring bar.
- As soon as the mortar begins to set, the exposed surface should be treated with a protective coating product (**742 LANKOCURING**).

#### ■ WATER DOSAGE / YIELD

- **705 CLAVEX +** is used for bedding or sealing, with a water dosage range from 11 to 15.5%, i.e. 2.75 to 3.87 litres of clean water per 25 kg bag.

#### Dosage / Yield

##### Fluid consistency (bedding)

##### 700 CLAVEX +

Quantity	1 x 25 kg bag
Water	3.75 litres
Final volume	12.5 litres

##### Plastic consistency (sealing)

##### 700 CLAVEX +

Quantity	1 x 25 kg bag
Water	2.8 litres
Final volume	12 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)

**PAREXGROUP S.A.** 19 place de la Résistance - CS 50053  
92445 Issy-les-Moulineaux Cedex - Tél. (33) 01 41 17 20 00  
Technical information : 0 826 08 68 78 (0,15 €/min + phone call price)

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### PRECAUTIONS

- Temperature range for use: + 5°C to + 35°C.
- In low temperatures, setting will take much longer to begin.
- Do not apply to a frozen or thawing substrate.
- Surfaces must be protected from air as soon as setting starts.
- Do not mix with other hydraulic binders.
- Do not add sand, admixtures or aggregates.
- Refer to the Safety Data Sheet.