

704 CLAVEX+ HP



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PRODUCT FEATURES

- ▶ High mechanical strength
- ▶ Suitable for thicknesses ranging from 5 to 150 mm
- ▶ Resistant to sea water and sulphated waters
- ▶ French NF label for « Sealing & Bedding »
- ▶ Compliant with standard EN 1504-6 (sealing)
- ▶ Compliant with standard NF P 18-821 (bedding, category 7)

WATER DOSAGE

- ▶ 3.5 to 4 litres per 25 kg bag
- ▶ The NF030 certified performance characteristics for bedding are for mortar made up with 15% water content (i.e. 3.75 litres per 25 kg bag).

REFERENCE DOCUMENTS

- ▶ CE Declaration of Performance
- ▶ Sealing & bedding product compliant with French standard NF030 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 plastic consistency mortar intended for sealing and bedding purposes.
- Compliant with standard EN 1504-6 (« *Anchoring of Reinforcing Steel Bars* »).
- Compliant with standard NF P 18-821 (« *Bedding, category 7* »)
 - highly fluid
 - high mechanical strength
 - pumpable

USES

- Bedding of elements in thickness ranging from 5 mm to 150 mm per coat.
- For thicknesses above 150 mm, please contact our sales team for further advice.
- 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 composed of hydraulic binders**
- **Grey ready-to-mix powder**
- **Particle size:** 0 - 1.6 mm
- **Paste density:** 2.2 approx.
- **Mortar pH:** 12.5
- **Pot life at 20°C:**
 - 90 minutes (sealing)
 - 90 minutes (bedding)
- **Workability:**
 - Fluid consistency (bedding)
 - Marsh cone flow time: 25 seconds immediately after mixing and 33 seconds after leaving to rest for 90 minutes.
- **Pull-out resistance after 7 days:** Test performed in compliance with standard EN 1881 (ceiling position)
- **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
- **Test of suitability for placing, in compliance with NF P18 832:** surface bubbles < 5 %

Setting time ⁽¹⁾

Temperature	+ 5°C	+ 20°C	+ 35°C
Initial setting	16 hrs	8 hrs 30'	6 hrs 15'
Final setting	19 hrs	10 hrs	6 hrs 30'

Mechanical strength (MPa) ⁽²⁾

Certified consistency with 3.75 L per bag

Period	1 day	7 days	28 days
Flexural	6	8	12
Compressive	32	55	60

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.

■ FORMWORK PREPARATION

- Make a watertight formwork around the bedding element, leaving a gap of 5cm between the base of the element and the edge of the formwork.
- On one of the longer sides, this gap should be extended to 20cm 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).
- Allow the mortar to overflow so as to prevent the formation of air bubbles.

■ MORTAR PREPARATION

- The mortar is made up by mixing **704 CLAVEX+ HP** with clean water.
- Machine-mix on slow speed (300 RPM approx.).
- Mix for at least 3 minutes (paddle mixer) or at least 5 minutes (cement mixer).

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PACKAGING

- ▶ 25 kg bag

STORAGE

- ▶ **12 months**

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

WARRANTY

- ▶ Manufacturer's liability

■ INSTRUCTIONS

- Remove all residual water.
- For without interruption, in one single direction and from the longest side of the formwork so as to avoid trapping air (by gravity using a special funnel, by pumping or by injection).
- The choice of application method will depend upon the thickness of the bedding and the length of the bedding element (plate, machine, etc.).
- Incorporate ventilation holes when performing large-scale bedding.
- Bedding thicknesses should be between 5 mm and 150 mm.
- 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

- The mortar is made up by mixing **704 CLAVEX+ HP** with clean water.
- Machine-mix on slow speed (300 RPM approx.).
- Mix for at least 3 minutes (paddle mixer) or at least 5 minutes (cement mixer).

■ INSTRUCTIONS

- Remove all residual water.
- 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

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Quantity	1 x 25 kg bag
Water	3.75 litres
Final volume	12.7 litres

TECHNICAL SUPPORT: 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.

0 826 08 68 78 Service 0,15 € / appel + prix appel

TECHNICAL DATA SHEET - August 2020

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

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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.
- Protect open air surfaces from drying too quickly with **742 LANKOCURING**.
- Do not mix with other hydraulic binders.
- Do not add sand, admixtures or aggregates
- Please refer to the safety data sheet before commencing work.