

- SHRINKAGE-COMPENSATING SEALING AND BEDDING MICRO-CONCRETE

708 CLAVEX + MB



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PRODUCT FEATURES

- ▶ High mechanical strength
- ▶ Suitable for thicknesses of 40 to 150 mm
- ▶ Excellent resistance to sea water, sulphated waters and de-icing salt
- ▶ French quality label NF 030: «Sealing & Bedding»

WATER DOSAGE

- ▶ 2.75 to 3.75 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
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DESCRIPTION

- Ready-to-mix, shrinkage-compensating, fluid or semi-paste micro-concrete 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 2».
- Fluid micro-concrete
- High mechanical strength
- Chloride-free
- Pumpable

USES

- Bedding of elements ranging in thickness from 40 mm to 150 mm
- Suitable for the bedding of bridge bearings, heavy machinery, rails etc...
- Wedged keying of prefabricated elements

SPECIFICATIONS

- **Active ingredients:** chloride-free hydraulic binders with no metal particles
- **Grey ready-to-mix powder**
- **Particle size:** 0-10 mm
- **Paste density:** 2.2
- **Mortar pH:** 12.5
- **Pot life at + 20°C:**
 - 30 min for sealing,
 - 40 min for bedding

Workability

- **Fluid consistency (bedding):** Abrams ½ cone spread = 320 mm
- **Plastic consistency (sealing):** Abrams ½ cone slump = 3.5 cm

Pull-out resistance after 7 days

- Test performed in compliance with Standard EN 1881 (floor position)
- **Hole diameter:** 40 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 P18 832:** bubble surface < 5%

PERFORMANCE CHARACTERISTICS

Setting time (1)

Fluid consistency (bedding)

Temperature	+ 5°C	+ 20°C	+ 30°C
Initial setting	19 h	7 h	5 h 30
Final setting	23 h	8 h	6 h 30

Plastic consistency (sealing)

Temperature	+ 5°C	+ 20°C	+ 30°C
Initial setting	14 h 00	6 h	4 h 00
Final setting	17 h 00	6 h 30	5 h 30

Mechanical strength (MPa) (2)

Fluid consistency (bedding)

Period	7 days	28 days
Flexural	7	10
Compressive	50	60

Plastic consistency (sealing)

Period	7 days	28 days
Flexural	8	11
Compressive	60	70

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.

(1) Laboratory values provided as a general guide.

(2) Compressive strength: tests carried out on 10 x 10 cubes kept at 20°C and 90% humidity. Average laboratory values provided as a general guide. Flexural strength: tests carried out on 10 x 10 x 40 prisms kept at 20°C and 90% humidity. Average laboratory values provided as a general guide.

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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).

■ MICRO-CONCRETE PREPARATION

- The micro-concrete is made up by mixing **708 CLAVEX + MB** 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 40 mm and 150 mm
- For smaller bedding thicknesses please use **705 CLAVEX +**.
- As soon as the micro-concrete 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 + 25 to 40 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.

■ 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.

- Clean out the area in which sealing is going to take place (refer to «Substrate preparation» above)
- Remove all dust from the surface of the substrate.
- Soak substrate with water for several hours prior to application.
- Position the bar or other element to be sealed in the hole and fill the hole with **708 CLAVEX + MB**.
- As soon as the mortar begins to set, the exposed surface should be treated with a protective coating product (**742 LANKOCURING**).

■ WATER DOSAGE / YIELD

- **708 CLAVEX + MB** is used for bedding or sealing, with a water dosage range from 11 to 15%, i.e. 2.75 to 3.75 litres of clean water per 25 kg bag.

Dosage / Yield

Fluid consistency (bedding)

708 CLAVEX + MB

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

Plastic consistency (sealing)

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Quantity	1 x 25 kg bag
Water	2.75 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

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