



CENTROX™ HB Quick Rapid Hardening Patching and Repair Mortar

PRODUCT INFORMATION BULLETIN

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DESCRIPTION

Centrox HB Quick is a balanced blend of sand, cement and active chemical components mixed together to create a rapid hardening high build mortar to repair damaged horizontal concrete surfaces.

USES

Repair of damaged concrete structures such as bridges, roads, pipes, factory floors and walls where a depth of fill of between 10 and 100 mm is required.

BENEFITS

- Rapid setting for quick repair in less than one hour.
- Contains no added chlorides and gypsum.
- High early and ultimate strength.
- Corrosion protection to reinforcement.
- Excellent abrasion resistance and durability.
- Can be painted over, most coatings adhere well to the cured product.
- Economical and labour saving material.
- Open to foot traffic in 2 hours, to vehicle traffic in 3 hours.
- Can be top treated with Centrox LW for dramatically increased waterproofing.
- Product, when correctly applied, has a life greater than 10 years.

PROPERTIES (at 23°C and 50% r.h.)

- **Mixing ratio:** approx. 2.2 litres of water per 20 kg bag
- **Potlife:** approx. 25 min after the addition of water.
- **Initial and Final Set:** 35 and 45 min
- **Compressive strength:**
 - 11MPa in 2 hours and 16 MPa in 3 hours
 - 41 MPa in 1 day and 92 MPa in 28 days.
- **Flexural strength:** 7.1 MPa in 28 days.
- **Bond Strength:** 4.8 MPa in 28 days.
- **Crack resistant** according to 'Ring Method'.

INSTALLATION (Refer to MSDS before use)

Surface Preparation

Remove any existing coating, and thoroughly clean surface, acid etch, pressure wash then hose to fully impregnate with water and allow to dry to a wet dull lustre free of puddles. Any exposed reinforcing should be cleaned and treated with Centrox B (steel corrosion inhibitor).

Priming: (Recommended)

Apply Centrox B at the rate of 1.6-2.1 kg/m² of dry powder.

Note: Priming enhances steel corrosion inhibition of repaired concrete

Mixing Equipment: Low Shear Mechanical Mixer

Mixing instructions

Place the required amount of water in a clean mixing bucket and while stirring slowly gradually add the **Centrox HB Quick** until a mix of the desired workability is obtained. Mix for a further 2 – 3 minutes and use within approximately 25 minutes..

Note:

1. *The normal water requirement is 1 litre of water to 8.7 to 9.1 kg **Centrox HB Quick**.*
2. *For depths of fill above 50mm, the product can be bulked out by adding up to 50% of 5-10 mm aggregate.*

Application

Apply the **Centrox HB Quick** by trowel onto the repair surface. Fill all pores and voids and screed of excess. Allow mortar to set to desired stiffness, then finish. The total time of mixing, placing and finishing should not exceed 30 minutes.

Curing:

All exposed areas should be moist cured. This should be done, as soon as the surface is firm (approx. in 1hr after addition of water to **Centrox HB Quick** dry mix), continuous application of water or wet hessian.

PACKAGING, SHELF LIFE and STORAGE

Centrox HB Quick is available in 20 kg moisture resistant bags.

Centrox HB Quick has a shelf life of 12 months if kept in a dry store in sealed bags.