

Product Information Bulletin CENTROX™ HB

2008

High Build Repair, Construction and Waterproof Mortar (Render)

DESCRIPTION

Centrox™ HB is a balanced blend of sand, cement and active chemical components mixed together to create a high build mortar for the repair of damaged or spalling concrete surfaces.

Centrox™ HB mixed with water creates a high build, chemical resistant compound of high strength and impermeability which bonds strongly to the cement substrate.

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

- Contains no chlorides.
- Application by hand or low pressure wet spray equipment.
- High mechanical strengths.
- Forms an indivisible body with the base concrete.
- Significantly increases impermeability and corrosion resistance of concrete.
- Corrosion protection to reinforcement.
- Excellent abrasion resistance and durability.
- Can be painted over, most coatings adhere well to the cured product.
- Can be top coated with Centrox R or treated with **Centrox™ L** for increased waterproofing and durability.

PROPERTIES

- **Waterproof according to DIN 1048**
- **Compressive strength:**
 - 24.0 MPa in 1 day
 - 47.2 MPa in 7 days and
 - 54.0 MPa in 28 days.
- **Flexural strength:** 5.9 MPa in 28 days.
- **Bond Strength:** 3.9 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™ L** (steel corrosion inhibitor).

Priming: (Recommended)

Apply **Centrox™ L** at the rate of 6 – 10 square metres per litre to further wet the surface without forming puddles.

Note: Priming enhances steel corrosion inhibition of repaired concrete

Mixing Equipment: Low Sheer Mechanical Mixer

Mixing instructions

Place the required amount of water in a clean mixing bucket and while stirring slowly gradually add the **Centrox™ HB** until a mix of the desired workability is obtained. Mix for a further 2 – 4 minutes allow the mixture to stand for a further 5 minutes or until the wet material takes on a jelly consistency. Re-mix for a further 2 minutes and use within approximately 50 minutes..

Note:

1. *The normal water requirement is 1 litre of water to 7.6 to 8.2 kg **Centrox™ HB**.*
2. *For depths of fill above 50mm, the product can be bulked out by adding up to 60% of 3-5mm aggregate.*

Application

Apply the **Centrox™ HB** as you would using standard render techniques, whether by spray or trowel.

Curing:

All exposed areas should be thoroughly cured. This should be done, as soon as the surface is firm, by the use of concrete curing membrane, continuous application of water or wet hessian.

PACKAGING, SHELF LIFE and STORAGE

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

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