



CENTROX™ HBL

High Build Repair Mortar for Vertical and Overhead Surfaces

DESCRIPTION

Centrox™ HBL is a lightweight cementitious repair mortar with high adhesive power to the treated concrete surface.

Centrox™ HBL contains a balanced blend of Portland cement, graded silica sands, adhesive improvement and reinforcement protection compounds.

Centrox™ HBL is supplied as a ready-mixed dry powdered product requiring only the addition of water before use.

USES

- Repair of damaged, spalled and eroded vertical, overhead and horizontal concrete surfaces of structures.
- As a major component in the following recommended Centrox Concrete Repair System for Vertical and Overhead Surfaces.
 - **Centrox™ B** (primer for bonding and reinforcement corrosion protection).
 - **Centrox™ HBL** (high build repair mortar for overhead and vertical surfaces)
 - **Centrox™ F** (finishing and protective top coat for concrete repair patches)

ADVANTAGES

- ✚ Easy to use – just add water
- ✚ Excellent adhesion
- ✚ Especially suitable for vertical and overhead application
- ✚ Suitable for interior and exterior application
- ✚ Non-sag in overhead and vertical work
- ✚ Can be applied up to 80 mm thick on vertical and 40 mm thick on overhead surfaces in one application
- ✚ Chloride free
- ✚ Corrosion protection to reinforcement
- ✚ Application by hand or low pressure wet spray equipment
- ✚ Compatible with the thermal expansion properties of repaired concrete
- ✚ Effective Life of correctly applied product greater than 10 years.

PROPERTIES

- ◆ Potlife at 20 °C: 40 minutes approximately
- ◆ Mixing ratio (water / dry mix): 1/6.7, or 3 liters / 20 kg
- ◆ Yield: approx. 16 liters of mixed mortar per 20 kg bag
- ◆ Compressive strength (AS 1012): 15.2 MPa at 1 day; 34.1 MPa at 7 days; 43.7 MPa at 28 days
- ◆ Flexural strength (AS 1012): 6.8 MPa at 28 days
- ◆ Bond strength (adhesion strength): 3.2 MPa at 28 days

INSTALLATION (Refer MSDS before applying)

Surface preparation

Centrox™ HBL must be applied to a clean surface free of contaminants. The prepared surface should be thoroughly saturated with water but puddle free during application. Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all rust.

Priming (recommended)

Apply Centrox B, a bonding primer and corrosion protection for reinforcement, as a slurry by brush or spray onto previously prepared concrete and steel surface (see instruction on Centrox B TDS). The priming must be tacky at the time of applying the **Centrox™ HBL**, i.e. wet on wet application.

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™ HBL** until a mix of the desired workability is obtained. Mix for a further 2 – 4 minutes and use within approximately 40 minutes. If the mortar begins to stiffen within a few minutes of mixing, re-mix the mortar to regain a workable mix.

*Note: the normal water requirement is 1 litre of water to 6.7 kg **Centrox™ HBL**.*



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APPLICATION

Centrox™ HBL can be applied either by hand or wet spray process equipment. **Centrox™ HBL** is applied wet on wet to the surface previously primed with **Centrox™ B**. Place the mortar well into the treated surface, filling all pores and voids. Compact well, then screed. The mortar may be applied in multiply layers. Allow previous layer to set before applying fresh mortar. The use of bonding primer **Centrox™ B** between layers is recommended. Layer thickness of up to 40 mm on overhead and 80 mm on vertical surfaces are possible. When **Centrox™ HBL** has set to desired stiffness, finish with a float. **Centrox™ F** is recommended as a final finishing and protective coat to the patched areas.

CURING

All exposed areas should be thoroughly cured. This should be done by the use of concrete curing membrane or continuous application of water and/or wet hessian.

PACKAGING, SHELF LIFE and STORAGE

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

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