



## Cost Effective Technologies

### CENTROX™ F

#### Finishing and Protective Top Coat for Concrete Repair Patches

#### PRODUCT INFORMATION BULLETIN

JANUARY 2010

#### DESCRIPTION

**Centrox™ F** is a cementitious fine finishing and protective top coat for concrete repair patches.

**Centrox™ F** is supplied as a dry powdered product requiring only the addition of water to be used.

\* Compressive strength (AS 1012): 31-36 MPa at 28 days

\* Flexural strength (AS 1012): 5 -7 MPa at 28 days

\* Bond strength (adhesion strength): 2.5 -3.5 MPa at 28 days

#### USES

- As a thin finishing coat to mortar patches and concrete, in overhead, vertical and horizontal applications
- As a thin protective seal coat to concrete where reinforcement is susceptible to corrosion
- Restoration of honeycombed and surface deteriorated concrete
- As repair and re-profiling render for concrete corner fillets, joint edges etc
- As a component of 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)

#### INSTALLATION (Refer MSDS before applying)

##### Surface preparation

**Centrox™ F** must be applied to a clean surface free of contaminants. The prepared surface should be thoroughly saturated with water but puddle free during application.

**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™ F** until a mix of a smooth consistency is obtained. Mix for a further 2 – 3 minutes and use within approximately 40 minutes. If the mix begins to stiffen within a few minutes of mixing, re-mix the mix to regain a smooth, workable mix.

*Note: the normal water requirement is 1 litre of water to 5.0-5.5 kg **Centrox™ F**.*

#### APPLICATION

**Centrox™ F** is applied as smooth paste by spatula, trowel or spray onto previously prepared and thoroughly water saturated concrete surface. The thickness of a coat should be 1.5 - 5.0 mm. When the render has stiffened but not dried, different methods can be used to achieve the required surface finish. Avoid the addition of water to the surface to achieve the required finish as this may cause surface cracking and colour variation.

#### CURING

All areas of the applied **Centrox™ F** must be thoroughly cured. This can be done by the use of a concrete curing membrane, continuous application of water or wet hessian.

Also in the process of curing, the hardening surface of **Centrox™ F** can be treated with the liquid waterproofing **Centrox™ LW** – for dramatically increased crack resistance (see instruction on Centrox LW TDS).

#### PACKAGING, SHELF LIFE and STORAGE

**Centrox™ F** is available in 20 kg moisture resistant bags.

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

#### ADVANTAGES

- \* Easy to work: spray, trowel and spatula application.
- \* Excellent bond to concrete surface.
- \* High mechanical strengths.
- \* Corrosion protection to reinforcement.
- \* Contains shrinkage compensating compounds.
- \* Effective life of correctly applied product greater than 10 years.

#### PROPERTIES

- \* Potlife at 23 °C: 40 minutes approximately
- \* Mixing ratio (water / dry mix): 1/ 5.0 to 5.5  
To one 20 kg bag of **Centrox™ F** add 3.6-4.0 litre of water
- \* Application thickness: 1.5 - 5.0 mm
- \* Consumption of dry powder: 1.8 – 2.0 kg/m<sup>2</sup> per mm thickness