



CENTROX PR™ WATERPROOFING

Water Absorption and Chlorides/Sulphates Permeability Reducer Efflorescence Preventing Admixture

PRODUCT INFORMATION BULLETIN

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DESCRIPTION

Centrox PR is hydrophobic pore-blocking admixture for watertight concrete.

Centrox PR is designed to reduce the rate of transmission of moisture and water soluble salts (chlorides, sulphates etc.) through concrete.

Centrox PR is a chloride free organic admixture supplied in a fine powder form. It does not contain any chemicals that might cause undesirable significant side effects when used in conjunction with other typically used concrete admixtures.

Centrox PR reacts with the cement hydration products forming a hydrophobic film on pores in concrete, reducing capillary suction and minimising absorption and penetration of water and preventing the ingress of potentially deleterious soluble materials, resulting in concrete with enhanced durability.

Centrox PR prevents efflorescence on the surface of concrete and mortar.

Centrox PR is classified by AS 1478.1-200 as a Permeability-reducing Admixture.

USES

- Water retaining structures
- Corrosion resistant floors, columns etc
- Tunnels and mining underground structures
- Marine construction
- Waste water treatment and desalination plant

BENEFITS

- Significantly reduces water absorption and water soluble salts (chlorides, sulphates etc.) permeability even in a low dosage rate
- Reduces chloride diffusion and could be a cost effective replacement for Silica Fume used for this purpose
- Prevents efflorescence on the surface of concrete and mortar.

- Decreases plastic shrinkage and crack development by minimising evaporation of water from the surface of fresh concrete
- Does not affect water vapour permeability
- Improves abrasion resistance of surface

RATE OF USE

Concrete.....0.6 – 6 kg/ m³

Mortar (Render).....0.1 – 2% of weight of binder

APPLICATION

1. **Centrox PR** should be added in a paper bag in a slowly rotating concrete mixer prior to charging concrete aggregates. This technique minimise some small material loss which may occur with the dusting during the first seconds of initial mixing.
2. Ingredients of **Centrox PR** are not toxic however inhalation is not recommended.
3. Since mixing by hand only generates low shear forces, it is best to allow the mixture to mature by leaving it to stand for 5 minutes, and then stir it again.
4. Concrete modified by **Centrox PR** does not require a special technique of curing if it not specified for structure type.

PACKAGING, SHELF LIFE and STORAGE

Centrox PR is available in 10 kg paper bags.- Small bags (sizes on request). Bulk on request.

Centrox PR has a shelf life of 12 months if kept in a dry store in sealed bags. It should not be subjected to excessive pressure during storage in hot weather because of the risk of caking.

SAFETY INFORMATION

Detailed safety information is contained in each material data safety sheet, which can be obtained from our sales offices.