

Struproof® HP

Concrete and Mortar Integral Waterproofing Admixture, Powder

Uses

As an integral waterproofer for:

- Structural and precast concrete
- Sand : Cement renders
- Floor screeds
- Mortars and Plasters

Advantages

- Allows a reduction in mix water content to be made without affecting workability, so reducing permeability.
- Provides integral protection, ensuring reduced permeability throughout the concrete and mortars.
- Integral protection is maintained even if surface damage occurs, unlike applied surface films or coatings.
- Lower water: cement ratio improves compressive strength at the same workability.
- Formulated for use in the Middle East.

Description

Struproof HP is a chloride free integral waterproofing admixture and is supplied as a white powder. It is formulated from a blend of hydrophobic materials; which together form a matrix of insoluble, water resistant material within the cement paste.

Typical dosage

The optimum dosage of Struproof HP to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimization of admixture dosage and mix design and provides a complete assessment of the mix. As a guide, an addition rate of 1% - 3% by weight of cement.

Properties

Appearance	White powder
Chloride	Nil to BS5075

Instructions for use

Compatibility:

Struproof HP is compatible with other STRUMIX admixtures used in the same concrete mix. All admixtures should be added to the mix separately and must not be mixed together prior to addition. The resultant properties of mixes containing more than one admixture should be assessed by the trial mix procedure recommended on this data sheet. Struproof HP is suitable for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS and microsilica.

Dispensing:

The correct quantity of Struproof HP should be measured by means of a suitably accurate device; and then added to the concrete during the mixing process either by hand, or mechanically.

Curing:

As with all structural concrete and sand : cement mixes, good curing practice should be maintained, particularly in situations where an overdose has occurred. Water spray, wet Hessian or a Strucure WS spray applied curing membrane should be used.

Limitations

The use of Struproof HP will not make poor quality concrete waterproof. Good concrete practice must be followed at all times. Well graded aggregates must be used and a minimum cement content of 300kg/m³ is usually recommended. Adequate waterstops must be provided between lifts of concrete and floor bays. It is recommended that this product be used with suitable concrete plasticizers.

Packaging

Struproof HP is available in 20 kg bags.

Storage

Struproof HP has a minimum shelf life of 12 months at 35°C if kept in a dry store in the original, unopened packs. The shelf life will be reduced at higher ambient temperatures.

Precautions***Health and safety:***

Struproof HP is alkaline and should not come into contact with skin and eyes. Avoid inhalation of dust during mixing. Gloves, goggles and dust mask should be worn. If contact with skin occurs, wash with water. Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

Fire:

Struproof HP is non-flammable.