

StrucoFuge HP

Hydrophobic pore blocking waterproofing admixture

Description

StrucoFuge HP is a specialized admixture designed to form pore-blocking solids that obstruct capillary action within concrete. Concrete and mortar treated with this product exhibit significantly increased resistance to water penetration, whether through capillary absorption or under external pressure. Importantly, **StrucoFuge HP** does not significantly alter the characteristics of fresh or hardened concrete. It is compatible for use with other superplasticizers

- **Integral Waterproofing:** Provides protection throughout the entire concrete matrix, remaining effective even if surfaces are damaged.
- **Durability:** It significantly reduces water absorption and chloride ion ingress.
- **Sustainability:** Formulated with a low environmental impact.
- **Versatility:** Suitable for use with all cement types, including OPC and SRC, as well as cement replacement materials like GGBS, PFA, SFA, and microsilical

Fields of application

StrucoFuge HP is recommended for high-durability concrete requiring low water absorption:

- Structural and precast concrete.
- Piling and sub-surface concrete.
- Coastal and marine structures.
- Water retaining structures and treatment works.
- Desalination plants.

Technical data

Form:	White colour liquid
Typical Density:	1.06 kg/cm ³
Chloride content: <i>BS 5075</i>	Nil
pH Value:	10
Water solubility:	Water soluble
Air entrainment:	Typically, Air entrainment: less than 2% additional air is entrained above control mix at normal dosages

Direction to use

StrucoFuge HP should be added to the concrete with the mixing water to achieve optimum performance. Use a recommended dispenser to ensure the correct quantity is measured.

Dosage

Typically, A common dosage is **1.0%** by weight of cement. The general range is **0.5 to 3.0 kg** per 100 kg of cement.

The optimum dosage should be determined through trial tests based on local materials and conditions

Mixing

StrucoFuge HP is completely miscible in water. To maximize effectiveness, it should be added along with the mixing water.

Effects of over-dosage

Overdosing of **StrucoFuge HP** will cause the following.

- Significant increase in retardation
- Increase in workability.



Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

Precautions

- Lower water to cement ratio gives lower permeability concrete.
- Good concrete placing and compaction are very important to produce waterproof concrete.
- Fresh concrete should be protected against rapid drying and cured properly.
- Cold joints must be avoided.

Packaging

StrucoFuge HP is supplied in 4L, 10L, 20L, 50L, 200L and 1000L containers

Shelf life & storage

12 months from production date if stored in original, unopened packaging, in temperature between +5°C and +35°C. Protect from direct sun exposure and frost.

Health & safety

Avoid direct contact with this product. Use of safety glasses, rubber gloves, and protective clothing is recommended. If contact occurs, wash affected areas with mild soap and water. Keep product out of reach of children.

Refer to Safety Data Sheet for complete health and safety information.

Notes

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