



High Performance, Hydrophobic, Pore Blocking, Integral Waterproofing Additive for Concretes and Mortars

General

SS - ConProof HP is a single component cementitious powder, which when added to mortar or concrete, activates and forms a chemically active waterproofing agent that functions on the principle of hydrophobic pore blocking. It is composed of a cementitious binder, well-graded fillers and a combination of active chemicals and additives. Due to its formulation, the active substances in **SS - ConProof HP** disperses rapidly into the mix and forms hydrophobic and swellable compounds that seal and block the penetration of water, through capillaries and cracks. The material increases water ingress resistance of the entire mortar / plaster / concrete mass as opposed to coatings, that only seal the top surface against water.

SS - ConProof HP forms breathable (allows water vapour diffusion) compounds that form an integral part of substrates and shows extreme resistance to water ingress, both on the positive as well as negative side. **SS - ConProof HP** disperses, rapidly through the mix, reduces water demand slightly and improves the compaction factor of concrete, thereby reducing the amount of cracks and capillaries. The active compounds then form hydrophobic as well as swellable pore blocking water resistant compounds, that further stop the transport of water through the mass of the mix.

The product conforms to IS:2645. **SS - ConProof HP** can be used in concretes, mortars and plasters used in bathroom, wet areas, water tanks, masonry basements, Basement slabs, lift pits and many such applications.

Product Features

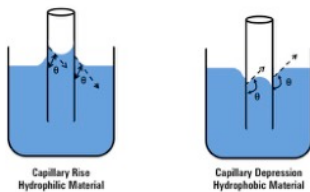
- Easy to mix and Disperse
- Powder form, easy to handle
- Renders Concretes, plasters, mortars hydrophobic and waterproof
- Improves workability and compaction
- Does not affect setting time, or compressive strength, only enhances watertightness of concrete
- Chloride Free, No corrosion Promoting Action
- Economical Dosage



Concrete & Mortar Additives



Capillary Action Mechanism for Hydrophilic and Hydrophobic Surfaces



Areas of Application

- Indoor areas such as bathrooms, kitchens, wet areas
- Insides of basements for walls as well as floors
- Brickwork, block masonry and plastered surfaces
- Insides of water tanks, swimming pools, STP, canals
- Footings and underground structures
- Lift pits, covered balconies
- Waterproof renders on damp masonry
- Areas in contact with drinking water
- Industrial structures

Areas of Application

Specification Keywords	Cementitious Additive, integral waterproofing, breathable, capillary / pore blocking, hydrophobic, mortars, concretes, plasters
Delivered As	Light Grey Powder
Storage Instructions	Store in a cool, dry area away from sunlight in original packaging
Shelf Life	12 months
Post Use	Empty packaging completely. Dispose as per local regulations. Refer MSDS for suggestions.
Packing Size	30 kg



Hazards and Safety



Technical Data

Specific Gravity	1.5 +/- 0.05
Dosage	1.0% by weight of binder, at least 3 kg / m ³ of mix
Waterproof Property	At least 50% reduction, as per IS 2645
Post Application	Curing is mandatory

Instructions for Use

Add **SS - ConProof HP** to the mortar / concrete during mixing, most preferably along with the additional water. It is not recommended to add **SS - ConProof HP** to the dry sand/cement mix, as it reduces efficiency of the admixture. The mixing time after addition of the admixture should be long enough to allow the admixture to function completely.

The concrete / mortar to be produced can be mixed in a standard drum mixer or a modern batching plant / pan mixer setup. Measure the air contents / workability of the mix as per requirements and codes.

In-case the admixture needs to be dosed on-site into mixers, please follow corresponding engineering and safety rules. Post addition, mix at full speed for atleast 3-5 minutes, to allow the admixture to disperse homogeneously. As with all chemical products, take care during use and storage to avoid contact with eyes, mouth, skin or food.

In case of contact, rinse eyes and skin immediately with plenty of water. If ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storing water or other consumable foods. Use Complete Packs.

Safety and Precautions

To determine individual technical suitability, test the admixture under application conditions. Please allow us to assist you for your concrete technology testing/needs. Follow relevant standards for production, placing and curing of the concrete / mortar / plaster. As with any concrete / mortar, efficient curing is essential to develop final properties mechanical and durability properties. Air entrainment reduces the strength of the mortar and should be considered as part of the mix design process

Depending upon the plaster mix severe over dosage of the admixture may result in apparent incompatibility such as bleeding/ segregation, quick loss of slump, excessive air entrainment, extended initial and final setting times etc. Slight overdosing would not severely affect the ultimate strength of plaster provided the concrete is properly mixed, handled and applied and cured.