Assess Build Chem Pvt. Ltd.
A World of Concrete Solutions

SS - ConProof HL

Dual Action, High Performance, Capillary Reducing, Compaction Improving Integral Waterproofing Liquid Additive for Concrete and Mortars

General

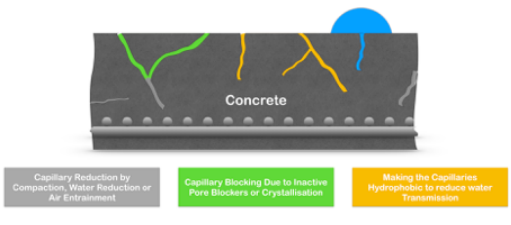
SS - ConProof HL is a single component liquid, which when added to mortar or concrete, provides a dual action mechanism by reducing water and improving workability. This action leads to significant capillary reduction in the concrete, and increases the workability and compaction ability of the concrete, making it denser and water ingress resistant. It is composed of a combination of active chemicals and additives. Due to its formulation, the active substances in **SS - ConProof HL** disperses, rapidly through the mix, reduces water upto 10-15% and improves the compaction factor of concrete, thereby reducing the amount of cracks and capillaries. 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.

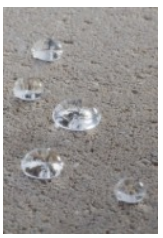
SS - ConProof HL forms breathable (allows water vapour diffusion) compounds that form an integral part of substrates and shows extreme resistance to water ingress, both on the positive as well as negative side. The dual action active compounds then result in a homogenous concrete mix that compacts easily with lesser effort and possesses less interconnected capillaries as opposed to untreated concretes, which further stops the transport of water through the mass of the mix.

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

Product Features

- Easy to mix and Disperse
- Liquid form, easy to handle
- Reduces the interconnected capillarity of concretes, plasters and mortars making them waterproof
- Improves workability and compaction ability
- Does not affect setting time, or compressive strength, only enhances watertightness of concrete
- Chloride Free, No corrosion Promoting Action
- Economical Dosage
- Brings Contraction in Capillaries





Areas of Application

- Concrete in areas like bathrooms, kitchens, wet areas
- Concrete in basements for walls as well as floors
- Brickwork, block masonry & plaster mortars
- Concrete in water tanks, swimming pools, STP, canals
- Concrete in Footings and underground structures
- Concrete in Lift pits
- Waterproof renders on damp masonry
- Concrete for Areas in contact with drinking water
- Concrete for Roofs, Balconies etc.

Areas of Application

Specification Keywords	Dual Action, High Performance, Capillary and Water Reducing, Workability and Compaction Improving, Liquid Additive, integral waterproofing, breathable, mortars, concretes, plasters
Delivered As	Brown Liquid
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.
Packing Size	30 kg, 220 kg

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SS - ConProof HL

Hazards and Safety

Technical Data

Specific Gravity	1.10 +/- 0.05
Dosage	0.3 to 0.5% by weight of binder, at least 1 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 HL** to the mortar / concrete during mixing, most preferably along with the additional water. It is not recommended to add **SS - ConProof HL** 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 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.