



## TechnoProof<sup>®</sup> 1+

Integral normal setting waterproofing compound  
For concrete & cement mortar in liquid form.

### Description:

TechnoProof®1+ is a heavy duty damp proofing (water repellency) admixture for concrete, mortars and any type of cementitious renders. TechnoProof®1+ contains blend of specialized active ingredients to make concrete waterproof that can even resist water through hydrostatic pressure or capillary absorption.

TechnoProof®1+ improves the cohesiveness property, workability, surface finish and durability of concrete & plaster mixes. TechnoProof®1+ conforms to IS: 2645-2003.

### Application Includes:

TechnoProof®1+ is recommended for use in the following areas of application-

- As an integral damp proofing/waterproofing compound in concrete for roof, slab etc.
- In construction of concrete roofs, bathrooms, sunken areas, swimming pools, basements, retaining walls, exterior plasters, etc.
- In marine structures and sea-facing buildings.
- In rendering/plastering work on all brick walls in Residential and Industrial Structures.
- In silos, basement structures and for damp-proof course in residential buildings.
- For repair/maintenance work of existing damp wall, saltpeter in brick work.

### Features:

- Ensures water tightness of concrete against water head.
- Prevents/reduces sweating, efflorescence, saltpeter action and fungal growth on the plaster surface of the brick.
- Protects concrete from weak solution of acids/chemicals.
- Eliminates/reduces dampness from the plastered surface of brick work.
- Resists fungal growth on the plastered surface of the brick.

### Application

#### For Rendering

TechnoProof®1+ is diluted with clean fresh water in the proportion of 1:12-16 i.e. 1 part TechnoProof®1+: 12 to 16 part water. Stir mix as mentioned above uniformly and thoroughly till all the TechnoProof®1+ goes into the solution without any visible lump. Add the solution only into the dry mix of cement and sand. The quantity of the solution i.e. TechnoProof®1+ and water is to be predetermined as per the cement-sand mix proportion and the quantity of mortar to be made at one time.

As a thumb rule mix 1 to 1.5 Kg. TechnoProof®1+ into 12 to 16 Litres of water for one bag mix of mortar and balance 15 to 20 Liters water added separately as per desired consistency.

#### For Waterproofers

The quantity of water depends on consistency of the mortar desired. Quantity of TechnoProof®1+ per bag of cement depends on the mix proportion. As a guide add 1.5 Kg/bag for 1: 6 mix or leaner mix and 1 Kg/bag for 1: 4 or richer mix.

#### For Concreting

- Make the solution as mentioned above.
- Add aggregate, sand and cement into the mixer and mix thoroughly, add gradually the solution to get the desired consistency/ workability. Do not add any extra water so that the W/C ratio does not change from that of specified. Add TechnoProof®1+ @ 2% by wt. of cement if cement content is 350 Kg/m<sup>3</sup> otherwise add @ 3% by wt. of cement for concrete with cement less than 350 Kg/ m<sup>3</sup>

### Typical Properties at 25°C

Form	Viscous liquid
Colour	Yellowish / Viscous liquid
Specific Gravity	1.07 ± 0.02
Setting Time	No change
Chloride content	Nil - (as per BS 5075)
Toxicity	Non-toxic
Strength	Increases

### Shelf Life & Storage

18 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C.

### Packaging

20Kg, 30 Kg, 50Kg & 225 Kg Metal/plastic drums

## Health and Safety instructions

Protect your health while working with this material, always use safety goggles, gloves and safety clothing. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals.

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

**Additional Information:** Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

\*Separate datasheet are available on these products.

## Precaution & Limitations

Ensure that specified water cement ratio is not exceed; Keep water content as low as possible compatible with achieving full compaction. Place concrete quickly and ensure that it is thoroughly compacted.

Protect new concrete against rapid drying out and ensure that curing is adequate and complete. Do not add any water when the mortar or concrete gets dry due to delayed use to make the mortar/concrete workable.

**DISCLAIMER:** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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Please note that this datasheet supersedes all previous versions.

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