

## Description:

TechnoProof® LWC Plus is an innovative liquid additive designed to allow improves the cohesiveness property, superior workability, surface finish and durability of concrete & plaster mixes. TechnoProof® LWC Plus contains blend of specialised active ingredients to make concrete waterproof that can even resist water through hydrostatic pressure or capillary absorption and compatible with all types of cement and cementitious materials (like fly ash, ground granulated slag, silica fume, metakaolin, etc.). TechnoProof® LWC Plus conforms the requirements of IS 2645- 2003 and IS 9103- 2000 standards.

## Application:

TechnoProof® LWC Plus can be used in all types of concrete and mortar that is used in all types of residential, commercial and infrastructural construction. Recommended to use in the following areas of application-

- Basements.
- Roof slabs and screeds.
- Water tanks & water retaining structures.
- External plastering.
- Bathrooms and balconies.
- Sumps and drains.

## Features:

- Being a liquid, easily dispersible & compatible with concrete/mortar mixes.
- Increases cohesive property of concrete / mortars thus eliminating segregation and bleeding.
- Workability and durability of concrete is improved.
- It reduces the permeability of water into concrete.
- Reduces shrinkage crack development in concrete and plasters.

## Method of Application:

- Charge cement & aggregates to concrete mixer as per the mix design, mix in dry state for 1–2 minutes.
- Start addition of 75–80% mixing water & mix for 2-3 minutes.
- TechnoProof® LWC Plus is added as per the recommended dosage into the remaining mixing / gauging water, then add to concrete mixer & mix for another 2 minutes.
- Place the concrete or apply plaster, as needed.
- Cure the applied mortar or concrete as per good construction practices

## Typical Properties at 25°C:

Form	Viscous liquid
Colour	Dark Brown liquid
Specific Gravity	1.06 ± 0.02
Setting Time	No change
Chloride content IS : 2645 : 2003	Max. 2.00%
Water permeability IS : 2645 : 2003	Passes
pH value	11.0 – 14.0

## Packaging:

TechnoProof® LWC Plus is supplied in 10, 20, 30, 50, 100 & 225 litre drums.

## Dosage:

As a guide, a dosage of 100 ml per 50kg bag of cementitious material is recommended. Optimum dosage TechnoProof® LWC Plus should be determined with trial mixes. Higher dosages may be required when certain combinations of materials and conditions are present or water reduction in excess of 15% is required. Because of variations in concrete materials, job site conditions, and/or applications, dosages outside of the recommended range may be required. In such cases, contact STIPL's local representative.

## Points to remember when producing waterproof concrete:

- Ensure w/c ratio is in the range of 0.40 to 0.60.
- Keep water content as low as possible.
- Place concrete quickly and compact it well.
- Ensure complete curing with a TechnoFinish™ curing compound.

## Effects of over dosage:

A severe over-dosage of TechnoProof® LWC Plus shall result in some of the followings:

- Extension of initial and final set
- Increase in air entrainment
- Bleed/segregation of mix, quick loss of workability
- Increased plastic shrinkage

A slight overdosing may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on formwork, and stripping times should be monitored. In the event of over dosage, contact STIPL's local representative immediately.

## Shelf Life & Storage:

24 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.

## Precaution & Limitations:

Do not add TechnoProof® LWC Plus directly to dry cement & aggregate mix. Maintain water-cement ratio as low as possible. Do not increase the dosage of TechnoProof® LWC Plus than the recommendation.

## 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. Emergency showers and eyewash stations. Get immediate medical attention as needed.

**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.

**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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