

HOMESURE WSHIELD LWC 100 (LIQUID CHAMPION 100)

Advanced Integral waterproofing compound for cement mortar, plaster & concrete

Homesure wShield LWC 100 is a high-performance, integral liquid waterproofing admixture formulated with surface-active plasticizing agents, specialized co-polymers, and advanced additives. The product conforms to **IS:2645-2003** as an integral waterproofing admixture for concrete and mortar applications. It enhances the cohesion of cementitious mixes, reducing permeability while significantly improving durability and workability.

INDICATIVE TECHNICAL DETAILS

(IS 2645 : 2003)

Nature	: Brown colour liquid
Specific gravity @ 27°C	: 1.10 ± 0.02
pH	: > 8.00
Chloride content	: Nil (IS 6925)
Sulphate content	: < 0.10%
Setting time	: Comparable with control
Water permeability	: < 50% than control
Compressive strength	: More than control

FEATURES AND BENEFITS

Enhanced Water Resistance: Effectively reduces capillary absorption, preventing water ingress.

Improved Workability: Enhances rheology of fresh concrete, ensuring smoother placement and finishing.

Superior Cohesion: Increases concrete homogeneity, minimizing segregation and bleeding.

Corrosion Protection: Enhances passivation layer formation around reinforcement, mitigating chloride-induced corrosion.

Shrinkage Reduction: Minimizes drying shrinkage cracks in mortar and concrete structures.

Increased Durability: Improves resistance to freeze-thaw cycles, carbonation, and sulfate attack.

Non-Chloride Formulation: Ensures compatibility with reinforced concrete, preventing steel reinforcement corrosion.

APPLICATION AREAS

- Structural concrete (roof slabs, beams, columns, foundations)
- Plastering works (internal and external)
- Water retaining structures (tanks, reservoirs, sumps)
- Basements, tunnels, and underground structures
- Swimming pools and sewage treatment plants
- Marine and coastal structures exposed to aggressive environments

GUIDANCE FOR USE

Recommended Dosage:

100 mL per 50 kg of cement (Typical dosage). Site trials are recommended to determine the optimal dosage based on specific mix designs.

Mixing Procedure:

- Charge cement and aggregates into the concrete mixer as per mix design. Dry mix for 1–2 minutes.
- Add 75–80% of the total mixing water and mix for another 2–3 minutes.
- Pre-dilute wShield LWC 100 in the remaining 20–25% of the mixing water.
- Add the pre-diluted solution to the concrete mixer and mix thoroughly for 2 minutes.
- Place the concrete or apply plaster immediately and ensure proper compaction.

CLEANING & DISPOSAL

- Clean the tools and equipment's before the material hardens.
- Spillages of wShield LWC 100 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remains should be hosed down with large quantities of water.
- The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

PRECAUTIONS




- ❖ Recommended dosage to be followed to achieve desired results.
- ❖ Excess dosage may lead to delay of setting time.

PACKAGING

Available in

1 kg, 5 kg, 10 kg & 20 kg pails
50 kg & 220 kg barrels

SHELF LIFE & STORAGE INSTRUCTIONS

-  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
-  Store in dry and well-ventilated place away from heat source or direct sunlight.
-  Avoid using partially used material; open drums with partially used material should be kept in a drum with its mouth closed.

HEALTH & SAFETY INFORMATION

- ★ Refer MSDS for information and advice on the safe handling, storage and disposal of chemical products.
- ★ Use rubber hand gloves & safety goggles, while using product
- ★ Avoid contact with skin/eyes and avoid swallowing. In case of contact with skin, wash with plenty of water.
- ★ Ensure adequate ventilation and avoid inhalation of vapour
- ★ Spillages of wShield LWC 100 can be removed with water. Do not use solvent to clean the contacted area.
- ★ Keep out of reach of children.