

### 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 copolymers, 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
<ul style="list-style-type: none"><li>⊕ 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</li><li>⊕ Store in dry and well-ventilated place away from heat source or direct sunlight.</li><li>⊕ Avoid using partially used material; open drums with partially used material should be kept in a drum with its mouth closed.</li></ul>

HEALTH & SAFETY INFORMATION
<ul style="list-style-type: none"><li>★ Refer MSDS for information and advice on the safe handling, storage and disposal of chemical products.</li><li>★ Use rubber hand gloves &amp; safety goggles, while using product</li><li>★ Avoid contact with skin/eyes and avoid swallowing. In case of contact with skin, wash with plenty of water.</li><li>★ Ensure adequate ventilation and avoid inhalation of vapour</li><li>★ Spillages of wShield LWC 100 can be removed with water. Do not use solvent to clean the contacted area.</li><li>★ Keep out of reach of children.</li></ul>