

TECHNICAL DATA SHEET



ISO 9001:2015 Quality

CAC®-LIW PLUS

Liquid Integral Waterproofing compound

CAC®-LIW PLUS is an integral liquid waterproofing admixture for concrete and cement mortar. It has good plasticising properties which makes concrete cohesive and prevents segregation. The liquid is to be added to the wet concrete or mortar. It fills up the capillaries in the concrete giving effective waterproofing.

AREA OF APPLICATION:

It is used for waterproofing of concrete and cement-sand mortar used in basements, roof slabs and screeds, water retaining structures, bathrooms, balconies, water tanks, external plastering, sumps and drains, etc.

FEATURES & BENEFITS:

- Increase durability, by increase in impermeability.
- Reduces shrinkage cracks in plaster & concrete.
- Concrete containing CAC®-LIW
 PLUS is resistant to water penetration either under conditions of hydrostatic absorption.
- Sulphate attack is reduced due to the sulphate bearing ground water being resisted.
- Makes the mortar / concrete more cohesive.
- Economical in application.
- Pumpability and surface finish of the concrete is greatly improved.

STANDARDS:

ASTM C 494 - Type A and D

METHOD OF APPLICATION:

Add 80-90% water to the concrete based on Mix Design by weight. The correct quantity of **CAC**®-**LIW PLUS** should be measured with recommended dispenser and should be added to the concrete with remaining mixing water. Allow to mix it for recommended mixing time. The addition of **CAC**®-**LIW PLUS** to dry mixes or cement is not recommended

To get better performance in workability retention, use along with **CAC-Superflow** series products. If more than one admixture is to be used in concrete, they must be dispensed separately.

DOSAGE:

As a starting point, a dose of 300ml per 100kg of cement is recommended. Optimum dosage of **CAC®-LIW PLUS** should be determined in trial mixes. Please consult CAC Pvt. Ltd. Technical staff for further information.

EFFECTS OF OVER-DOSAGE:

A severe over-dosage of **CAC®-LIW PLUS** will result in the following:

- Slight set retardation.
- Increase in workability
- Slight increase in air content

Providing concrete is properly cured, the ultimate concrete strength will not be adversely affected.







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TECHNICAL PROPERTIES:

Appearance	Reddish Brown Liquid
Specific Gravity @30°C	1.040 ± 0.020
Chloride content	Maximum 0.2%
рН	Minimum 9.5

CAC®-LIW PLUS is a chloride free product. The shelf life of the product is 1 year when stored as recommended.

IMPORTANT POINTS TO REMEMBER:

- Ensure w/c ratio should not exceed 0.5
- Keep lowest possible water content in concrete compatible with achieving full compaction.
- Place concrete quickly & ensure it thoroughly compacted.
- Protect new concrete against rapid drying out and ensure adequate and complete curing by using CAC's curing compounds.

MECHANISM:

CAC®-LIW PLUS significantly reduces water demand to enable production of good workability concrete with a minimum water/cement ratio.

CAC®-LIW PLUS disrupts the cellular network within the concrete mass (capillaries), that are normally interconnected thereby reducing the concrete permeability.

COMPATIBILITY

CAC®-LIW PLUS is compatible with all types of Portland cements including sulphate resisting cement.

STORAGE:

CAC®-LIW PLUS must be stored at above 5°C temperature. If the product has frozen, thaw at room temperature and agitate to completely reconstitute it in original form. Store under cover, protect it from direct sunlight. Failure to comply with recommended storage condition may result in premature deterioration of the product or packaging.

PACKAGING:

CAC[®]-**LIW PLUS** is available in 25 kg & 250 kg HDPE drum or in bulk.

SAFETY PRECAUTIONS:

CAC®-LIW PLUS is a non-toxic and non-flammable. When in contact with the skin, it should be washed with cold water.

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 and take trials to ensure on suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of the other materials used and 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 any consequential damage for unsatisfactory results, arising from the use of our products.



