



FIXOBON LW+

PRODUCT CODE : 415

LIQUID INTEGRAL WATER PROOFING ADMIXTURE FOR CONCRETE

SPECIFICATION

ASTM C 494 TYPE A
IS 2645 – 1975

DESCRIPTION

ROKSO LWP contains blend of specialised active ingredients to make concrete waterproof that can even resist water through hydrostatic pressure of capillary absorption. FIXOBON LW+ increase durability, cohesive property, workability (for easy concrete flow) and surface finish.

ACTION

FIXOBON LW+ assists in the production of waterproof concrete by its two fold action: 1) It disrupts the cellular network within the concrete mass (capillaries that are normally interconnected) thereby rendering the concrete impermeable. Test results using Initial Surface Absorption Test (I.S.A.T.) in accordance with BS 1981 Part 5: 1970 on concrete with FIXOBON LW+ shows a decrease in surface absorption of between 60-80% over a similar concrete without FIXOBON LW+. 2) It significantly reduces water demand to enable production of good workability concrete with a lower water cement ratio.

ADVANTAGES

*Concrete containing FIXOBON LW+ is resistant to water penetration either under conditions of hydrostatic pressure or capillary absorption.

*Durability is increased due to significant reduction in W/C ratio.

*Sulphate attack is reduced due to the sulphate bearing ground water being resisted.

*It improves the cohesive properties of the concrete thus reducing segregation and eliminating bleeding. Of particular use with sea dredged aggregates and sands.

*Pumpability of concrete is greatly improved. *The surface finish of the concrete is improved.

PROPERTIES

Colour	Brown liquid
Specific Gravity	1.19 ± 0.02 at 20° C
Air Entertainment	2% according to grading of sand and water content.
Chlorides	NIL
Nitrates	NIL
Freezing Point	0°C (can be reconstituted if stirred after thawing).
Compatibility	Compatible with all types of cements including sulphate resisting cement.

ANALYSIS OF RESULTS

The typical results below show that FIXOBON LW+ is effective as a permeability reducing admixture both under condition of pressure and capillary absorption, that it can be used very safely with OPC & that it significantly lowers water cement ratio whilst maintaining workability without affecting compressive strength.

Effect on Strength effect & water reduction						
Admixture	Air%	W / C	Density k/m	Compressive Strength 7 Days	N/mm 28 Days	Water Absorbed After 24 hr.
None	1%	0.435	2450	18	25.7	4.1%
FIXOBON LW+ 200 ML						
FIXOBON LW+AT 140 CC/50 Kgs. OPC	2%	0.37	2440	18.6	26.0	1.8%

O.P.C. = Ordinary Portland Cement

DOSAGE

140 c.c. Per 50Kgs of cement.

NOTE: When FIXOBON LW+ is used, w/c ratio should be reduced for getting same compressive strength as control concrete.

EFFECT OF OVER DOSAGE

Slight set retardation. Slight increase in air content and reduction in compressive strength. Increase in workability.

METHOD OF USE

FIXOBON LW+ should be added with the mixing water. It should not be added to be dry cement. No extension to mixing times is required.

CAUTION

Ensure specified water cement ratio is not exceeded; work within the range of 0.4 to 0.5 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.

STORAGE

One year if stored in sealed containers. Protect from frost.

PACKING

Available in user friendly packs of 140 ml bottle, 1 LTR & 5 LTR, 10 LTR, 20 LTR, 50 LTR, 100 LTR & 210 LTR.

Manufactured in INDIA by
ROKSO INDIA PRIVATE LIMITED

AN ISO 9001 : 2015 CERTIFIED COMPANY

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