



INDIAN I.W.L

The ART of construction chemicals!



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INDIAN I.W.L is Integral waterproofing liquid cum Accelerating admixture for concrete, which accelerates the stiffening and early strength gain of Portland cement concrete and mortar. The application areas are structural concrete, concrete blocks, concrete pipes, precast items and also suitable for cold weather masonry work.



BENEFITS:-

- It is a chloride free accelerator and does not affect pre-stressed and pre-cast concrete
- It can be used in concrete at any temperature between 5°C to 45°C
- It is specially designed to control the water-cement ratio and reduce the set rate at the early stage of concrete as well as gain ultimate strengths.
- This product can go with both PCC and RCC.
- It gives high early strength.

Standard:

INDIAN I.W.L complies with IS 9103 - 1999, BS 5075 - Part - 1, and ASTM - C 494 Type "C" as accelerating admixture.

Technical Properties:

Color	: Coffee Color Liquid
Specific Gravity at 30oC	: 1.26 to 1.28
Air Entrainment	: Approximately 1% additional over control
Chloride Content	: Nil, According to IS 456-1978. BS-5075
BASE	: Login

Dosage: The normal recommended dosage is 200 ml to 400 ML per 50 Kg of Cement. The ultimate dosage has to be determined by site trials.

Packing:



Storage & Shelf Life:

To be stored away from heat and frost.
Best before 24 months from the date of manufacturing.

Trial Result:

Mix Design:

Mix Constituents: 20 mm & 10 mm

Cement: OPC 53 Grades

Sand

Aggregates



Trial No.	Cement Content Kg/m ³	Dosage Ltr/50Kg Cement	Water / Cement Ratio	Setting Time		Slump mm	Compressive Strength N/mm ²		
				Initial	Final		3 days	7 days	28 days
(Without Chemical)	300	Nil	0.60	3:00 Hr	4.30 Hr	90 mm	17	29	43
(With Chemical)	300	0.400	0.55	2:00 Hr	3.30 Hr	90mm	24	38	48

APPLICATION Instruction:

INDIAN I.W.L is compatible with all kinds of OPC, composite cement (PSC and PPC) Silica Fume, Metakaolin, Rice Husk Ash (RHA), Pulverized Fuel Ash (PFA) and Ground Granulated Blast Furnace Slag (GGBFS). But it is recommended to add proper dose at the time of mixing with cement for better result. After addition of INDIAN IWL the concrete should be mix at least for 2 minutes.