

MONOCRETE LWP



Liquid Integral water proofing compound for concrete and Mortars

DESCRIPTION

MONOCRETE LWP is an integral waterproofing compound for addition to cement-based mortars and concrete. When added to the mix, it spreads over the cement and aggregates, disperses the cement particles and reduces the effect of capillary action by forming dense concrete. It makes the mix hydrophobic, reduces its permeability, and thus increases the waterproofing.

FEATURES AND BENEFITS

Liquid admixture: Instant and complete dispersion throughout the mix. Uniform waterproofing throughout concrete matrix.

High efficiency: Dramatic reduction in permeability of concrete/ mortar.

Improved workability: Improves compaction of concrete and mortar, even where harsh sands or aggregates are used.

Improved concrete quality : Minimises porosity and honey combing. Produces dense homogenous concrete.

USES

- Basements
- Ceiling leakage
- Wall leakage
- Swimming pools
- Water tanks

COMPATIBILITY

MONOCRETE LWP complies with ASTM C494, Type A and EN 934 -2 and IS 2645.

TECHNICAL PROPERTIES

Colour:	Brown liquid
Freezing point:	≈ -2°C
Relative density:	1.18 ± 0.01
Chloride content:	Nil

BS 5075

Air entrainment: Typically less than 2% additional air is entrained above control mix at normal dosages.

TEST RESULTS:

Mix proportions: 1:2:4

DOSAGE:

0.15 ltr/50 kg cement.

Representative trials should be conducted to determine the optimum dosage of MONOCRETE LWP to meet the performance requirements by using the materials and conditions in actual use

PERMEABILITY:

The permeability measurements as per BS 1881, Part 5:1970 has been carried out on samples of mortar using MONOCRETE LWP to determine The water proofing efficiency of MONOCRETE LWP.

Permeability (mt/m²/s)

	10 min	30 min	60 min
Control:	11.5	6.5	3.4
MONOCRETE LWP	4.8	2.9	1.6

METHOD OF USE

MONOCRETE LWP should be added to the concrete or mortar with the mixing water to achieve optimum performance.

An automatic dispenser should be used to dispense the correct quantity of MONOCRETE LWP to the concrete mix.

DOSAGE

The guidance dosage of MONOCRETE LWP is 0.15 - 0.25 litre per 50 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica within this dose, water content can be reduced by 10 - 15% due to the plasticising action of MONOCRETE LWP

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EFFECTS OF OVER DOSAGE

Over dosing of MONOCERTE LWP will cause the following:

- Significant increase in retardation.
- Increase in workability.
- Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

POINTS TO BE CONSIDERED IN WATERPROOF CONCRETE

- i. Lower water to cement ratio gives lower permeability concrete.
- ii. Good concrete placing and compaction are very important to produce waterproof concrete.
- iii. Fresh concrete should be protected against rapid drying and cured properly.
- iv. Cold joints must be avoided.

CLEANING

MONOCRETE LWP can be washed with fresh cold water

PACKAGING

MONOCRETE LWP is available in 150 ml, 1, 5, 20 litre pails, 250 kg drums and 1000 litre bulks supply.

STORAGE

MONOCRETE LWP has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, STARKE Technical Department should be contacted for advice.

CAUTIONS

Cautions

Health and Safety

MONOCRETE LWP is not classified as hazardous material. MONOCRETE LWP should not come into contact with skin and eyes. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information, refer to the Material Safety Data Sheet.

FIRE

MONOCRETE LWP is nonflammable.

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Important note :

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