

Product data



Verna IWP admixture

- Description:** **Verna IWP admixture** is a chloride free water proofing plasticizing admixture. Which functions by forming an internal barrier against water penetration in concrete for production of reinforced and where waterproofing concrete and mortars are required.
Verna IWP admixture produce cohesive and more workable concrete at constant water cement ratio or a concrete with same workability at 5%water reduction when used at recommended dosage.
- Recommended use:** Verna IWP admixture is specially recommended to be used in concrete which in contacts with soil, foundation, walls, floors that must be water tight and in reinforced, pre-stressed concrete subject to high stress. Such as desalination plant, tunnels, culverts, sewage plants, water reservoir, soil, pits, foundations, terraces ,balconies and cellars,
- Advantages:**
- Increased workability: reduce the placing time.
 - Improve strength: water reductions give higher strengths without cement increase or workability loss.
 - Waterproofing: provide peter dispersion of cement particles giving closer packing and reduce pore size and minimizes capillary action in concrete.
 - Provide protection against penetration of dampness and water under pressure.
 - Breathability: the concrete retains in capacity to breath.
 - Integral: its not membrane or surface film.
 - Water absorption: reduce water absorptions.
 - Easy to use: no special skills or extra labor is required.
 - Chloride free: safe in reinforced concrete.
 - Compatibility with cement: can be used with all types of Portland cements including sulphate resistant cement.

TECHNICAL PROPERTIES:

- Calcium Chloride content:** Niles to BS 5075
- Specific gravity:** 1.02-1.05 at 20C°.
- Setting time:** Less than 2 hr retardation at normal dosage.
- Air entrainment:** Less than 1% additional air is entrained.
- Cement compatibility:** Compatible with sulphate resistant and other Portland cements.
- Waterproofing:** Water penetration is less than 30mm when tested to DIN 1048 part -51991 and D 1045-page -24 clause 6.5.7.5 on at least 3 test cubes made from concrete with W/C ratio of 0.45 at an age of 28-35 days and expressed as an average in mm.

INSTRUCTION FOR USE: Itself cannot make poor quality concrete waterproof .it has to be added to good quality concrete with W/C ratio of 0.4 to 0.6. it will require good concrete practice and good compaction of concrete.

- Dosage:** Verna IWP admixture should be added at a rate 1% of cement by weight. optimum dosage should be determined by site trails with actual site conditions.
- Effects of over dosing:** an overdose of double the recommended amount of normal dosage will result with some retardation and increases in air entrainment. the ultimate compressive strength will not significantly be affected.
- Curing:** As with all structure concrete, normal curing method apply.
- Cleaning:** Spillage of Verna IWP admixture could be removed with water.
- Package:** Verna IWP admixture is supplied in packs containing 5 kg. 25 kg and 200 kg.
- Precaution:**
- Health and safety:** Verna IWP admixture is nontoxic and nonflammable.
Any splash to eyes should be washed immediately with water and medical advice should be asked.

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available . Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

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