

# ECMAGUARD WPL

## INTEGRAL WATERPROOFING LIQUID FOR CONCRETE AND MORTARS

### Description

**ECMAGUARD WPL** is a high-quality waterproofing liquid based on specially selected organic polymers, designed to provide excellent waterproofing for concrete and mortars. The presence of this integral compound resists and reverses the normal tendency of hardened concrete to absorb water by capillary action and makes the concrete totally sealed against penetration of water (or liquids). ECMAGUARD WPL confirms to IS 2645 - 1975.

### Areas of Application

General concrete works such as roof slabs, sunken slabs, balconies, water tanks, basements etc & wherever there is requirement for water proofing and high-quality concrete.

- In rendering / plastering work on all brick walls in Residential/ Commercial and Industrial Structures.
- In silos, basement structures and for damp-proof course in residential buildings.
- For repair / maintenance work of existing damp wall, saltpetre in brick work.
- As an integral damp proofing /waterproofing compound in concrete for roof, slab etc.
- In marine structures and sea-facing buildings.

### Advantages

- Improves workability, cohesion of the mix even at a reduced water cement ratio. It disperses uniformly & easily with the other ingredients of concrete/ mortar mix and improve overall quality of concrete.
- Improves waterproofing by reduction of permeability of concrete & mortars.
- Reduces dampness, sweating, efflorescence, saltpetre action and fungal growth on plaster surfaces.
- Chloride free, does not cause corrosion.
- Compatible with all types of OPC, PPC PFA, GGBFS, Silica fume etc.

### Technical Specification

Appearance	Brown
Physical State	Liquid
Specific Gravity at 27 °C	1.15±0.02
Ph Value	>6
Chloride content	NIL as per IS 456 and BS 5075 Part I
Setting Time (at normal dosage)	Doesn't affect the setting time
Reduction in Water Permeability	< 50% of Reference Mix
Compressive Strength	Almost Equal to Reference Mix
Toxicity	Non-Toxic
Workability	Improves Workability



## Application Instructions

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**Dosage & Usage:** ECMAGUARD WPL is a high quality plasticiser cum water proofing liquid. The normal recommended dosage is 100 ml/ 50 kg bag of cement; however, dosage range is 80 ml to 125 ml per 50 kg bag of cement.

ECMAGUARD WPL has to be added in wet concrete/ mortar mix for best results. In other words, after adding and mixing about 85% to 90% of total mixing water with other ingredients of concrete, ECMAGUARD WPL is diluted in the remaining water and added on to the already mixed, wet concrete. Now the entire batch of concrete is mixed again thoroughly to ensure uniform dispersion of ECMAGUARD WPL. When its water reducing ability is judiciously utilized, ECMAGUARD WPL gives highly impermeable and durable concrete.

ECMAGUARD WPL is designed for normal concretes/ mortars up to M20 grade using above mentioned dosages. For higher grades, especially while making structural members, precast elements etc proper trials should be done to fix its dosage before actually the material is used. In such cases other ECMAPLAST range of products which confirm to IS9103-1979 may be considered or product selection can be done in consultation with technical cell of ECMAS for getting best strengths the water reducing ability of ECMAGUARD WPL has to be harnessed. Generally, for a dosage of 100 ml / 50 kg bag of cement 8% to 10% water reduction would suffice.

## Packaging

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20 Kg and 200 Kg containers

## Shelf Life

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12 Months in original, unopened, sealed condition when stored in dry & cool place

## Storage & Handling

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Material should be stored in moisture free, cool and dry shade. Please avoid stacking of containers and handle carefully during transport.

## Safety & Precautions

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ECMAGUARD WPL should be used only at the recommended dosages. Higher dosages may result in retardation compared to normal concrete, also may result in higher air entrainment and hence lesser strength. Concrete made with ECMAGUARD WPL has to be cured as per normal standard procedures.

Contact with skin should be avoided and any splashes on to the eyes should be immediately washed with plenty of fresh water and medical advice has to be taken.

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