



# MEHS Chem Industry

Constructing better tomorrow

## MEHS 14WP

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Low dosage, liquid, integral water proofer for concrete and mortar

### Description

**MEHS 14WP** is a liquid admixture for concrete to achieve high resistance to water ingress. It is based on a blend of surface active agents and refined lignosulphonate.

### Uses

- Can be used in all structural concrete that is constantly or intermittently in contact with water such as sea walls, tunnels, basements, structural and pre-cast concrete in exposed superstructures.
- To reduce salt outcome in the plaster work.
- Reduce porosity in the concrete.
- Can be used as waterproofing cum plasticizing admixture for cement mortars and plasters.

### Advantages

- Provides resistance to water penetration either under hydrostatic pressure or capillary absorption.
- Increased durability.
- Reduced sulphate attack.
- Reduced efflorescence.
- Improved cohesion, reduce segregation.
- Pumpability of concrete is greatly improved.
- Improved surface finish.
- Reduced shrinkage cracks in plasters

- Does not reduce compressive strengths
- Liquid – easy to use.
- Low dosage – Economical.

### Technical Data

Color : Dark Brown

Form : Liquid

Specific Gravity : 1.17±0.02 at 25° C

Salt Scaling Resistance : Excellent

Chloride Content : 0.0%

Surface absorption of water, BS 1881: Reduction of 60-80%.

### Standard Compliance

**MEHS 14WP** complies with IS 9103-1999. **MEHS 14WP** conforms to ASTM C-494 Type 'A' and Type 'D'.

### Dosage

The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with **MEHS 14WP** should always be compared with mix containing no admixture. As a guide, the

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rate of addition is generally in the range of 200 ml to 400 ml per 100kg Cement.

### Over Dosing

An over dose of double the recommended amount of **MEHS 14WP** will result in very high workability and some retardation of setting time will occur. However, the ultimate compressive strength will not be impaired. Delay setting of Concrete may occur due to over dosing.

### Compatibility

**MEHS 14WP** is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers and all types of Water Integral admixtures.

**MEHS 14WP** is also compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

### Packaging

**MEHS 14WP** is supplied in 250kg drums.

### Shelf Life & Storage

**MEHS 14WP** has a minimum shelf life of 12 months from the date of manufacture when stored under

normal temperature. **MEHS 14WP** must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Store under Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

### Application

**MEHS 14WP** is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of **MEHS 14WP** to dry aggregate or cement is not recommended.

**Precautions** **MEHS 14WP** is Non Toxic & Non Flammable. As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and food stuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item

**Disclaimer:** All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct, MEHS Chem Industry warrants its products to be free of manufacturing defects and that, at the time and place of shipment, our material will meet current published physical properties when applied within MEHS directions and tested in MEHS standards. As MEHS has no control over the use to which others may put its products. Responsibility remains with the architect or engineer, contractor and owner for the design, applications and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

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