



MEHS Chem Industry Ltd.
Constructing better tomorrow

MEHS 1600

High range water reducing superplasticising admixture for Rheoplastic concrete

Description

MEHS 1600 is based on Sulphonated Naphthalene Polymers and supplied as a Dark brown liquid.

MEHS 1600 has been specially formulated to give high water reductions upto 25% without loss of workability or to produce high quality concrete of reduced permeability.

Uses

- Site Mixed Concrete
- To produce Concrete with extreme workability characteristics
- Pumped concrete
- Precast/Pre stress concrete
- To maintain minimum Water Cement ratio (WCR) in Concrete
- To produce High Grade Concrete M30 and above by high water reduction in the Concrete Mix design
- High performance grout and wet shotcrete mixes

Advantages

- High early strength -accelerated construction
- Controlled set times
- Improved Cohesion and particle dispersion minimizes segregation & bleeding and improved pumpability
- Improved density and surface finish
- Feasible to use to make good fare face concrete
- chloride free dose not attack reinforcement and pre stressed cable.

- Reduce porosity of the Concrete and increased durability.

Technical Data

Color : Dark Brown

Form : Liquid

Specific Gravity : 1.21±0.02 at 25° C

Salt Scaling Resistance : Excellent

Chloride Content : 0.0%

Standard Compliance

MEHS 1600 complies with IS 9103:1999& EN 934-2: T3.1/3.2.

MEHS 1600 conforms to ASTM C-494 Type 'A', and Type 'F'.

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 1600** should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 400 ml to 1200 ml per 100kg Cement. In high performance concrete a dosage upto 1800ml per 100kg of cementitious material can be added subject to prior site trials. For good quality workable concrete



Corporate Office:

MEHS Chem Industry Ltd.

House No-134 (4th floor) Eastern Road
Lane-5, Mohakhali DOHS, Dhaka-1206, Tel: +88 02 9833392
Sales Hotline:+880 1909100501, +880 1909100502
Mobile: +88 01928024067, +88 01919004310
E-mail: mehschemltd@gmail.com



facebook.com/mehschembd



Factory:

MEHS Chem Industry Ltd.

Mukhtarpur, Munshigonj Sadar
Munshigonj, Bangladesh
Mobile: +880 1909100504

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the ideal dose of **MEHS 1600** lays from 0.7% to 1.2% by weight of cement used in the mix design.

Over Dosing

An over dose of double the recommended amount of **MEHS 1600** 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 and bleeding during concreting may occur due to over dosing.

Compatibility

MEHS 1600 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 1600 is also compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

Packaging

MEHS 1600 is supplied in 250kg drums.

Shelf Life & Storage

MEHS 1600 has a minimum shelf life of 12 months from the date of manufacture when stored under normal temperature. **MEHS 1600** 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. Do not use pressurized air for agitation. Store under Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Application

MEHS 1600 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 1600** to dry aggregate or cement is not recommended.

When using **MEHS 1600** to produce flowing concrete at site using ready mix trucks, it can be added to the concrete via the feed hopper at the rear of the truck. Mix before discharge for 5 minutes at 10 rpm to produce a fully homogenous mix.

Precautions

MEHS 1600 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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