

HIND PLAST AEA

AIR ENTRAINING AGENT FOR CONCRETE & MORTAR



DESCRIPTION

Hind Plast AEA is a slight alkaline solution, miscible with water, and having specific gravity of 1.01. It is an air entraining agent based on selected resin, conforming to ASTM-C 260-66T & IS: 9103:1999 (Reaffirmed 2004) Edition 2.2 (2007-08).

USES

Hind Plast AEA is recommended to be used for well compacted durable concrete, resistant to extreme thermal variation and frost action is required. The area for use include roads, runways paving's, hardstands, dams, canal lining, open storage areas etc. **Hind Plast AEA** of great benefit in light weight concrete, where it improves workability and reduces tendency to bleed. It is useful in reducing the density of light weight concrete blocks, so that blocks meet thermal insulation requirements. **Hind Plast AEA** gives increased durability to dense concrete and because of the entrained air, a reduction in material costs is achieved.

ADVANTAGES

Hind Plast AEA functions on the interface of the sand and water to produce stable microscopic air bubbles uniformly distributed throughout the concrete. These bubbles serve to reduce both the amount of water absorbed and damage which arises from the formation of ice crystals in the pores of concrete. Apart from its usefulness in providing a much greater resistance to spalling and cracking in freeze/thaw environments **Hind Plast AEA** improves the properties of fresh concrete. Thus it gives the concrete better cohesion and workability, reduced segregation and bleeding which often occur when utilizing low quality aggregates and harsh mixes.

APPLICATION

Hind Plast AEA is supplied, ready to use and should be added to mix with gauging water.

RATE OF ADDITION

The dosage rate of **Hind Plast AEA** varies from **0.03% to 0.15%** by weight of cement (**BWOC**) to produce concrete with entrained air of $5\% \pm 1.5\%$. The exact dosage should be determined by site trials and by using air meter to determine the air content as per requirement in trial mixes. Generally higher the dosage rate, the greater the air entrainment, but mixes with low workability require a higher dosage rate to give a specified air content. In addition, concrete having low cement but high sand content will require less **Hind Plast-AEA** than Cementrich, low sand concrete. Other factors to be taken into account include aggregate grading, strength requirements, yield and temperature. If PFA or Microsilica is used in the concrete the dosage may increase to obtain the required air content. Frequent air meter test to be done correctly and dosage rate adjusted to control the air content which is normally in the range of 3%-5% without affecting the strength of concrete.

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PROPERTIES

- It does not contain Calcium Chloride or any other Chemicals, harmful for durable concrete.
- Is Compatible with all type of Portland cement.
- Chemicals used for formulation of Hind Plast AEA present no fire or health hazards.
- Hind Plast AEA is formulated from selected raw materials and is manufactured under control conditions to give a consistent product.

SHELF LIFE

12 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2°C (Min.) and 50°C (Max.).

PACKING

200 Kg. HDPE Container.

HANDLING PRECAUTION

Hind Plast AEA is non-toxic and ingestion is to be avoided. Any splashes to the skin must be washed with water. If contact with eyes occurs, wash well immediately with water and seek medical advice.

IMPORTANT NOTICE :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products. The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behaviour can change as per the prevailing conditions at the time of applications. Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use. The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.



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