



HIND SET LAF 100

PRODUCT DATA SHEET

ALKALI FREE ACCELERATOR FOR SHOTCRETE & SPRAY CONCRETE IN LIQUID FORM

DESCRIPTION

Hind Set LAF 100 is a alkali-free set accelerator with high performance in liquid form for sprayed concrete applications. **Hind Set LAF 100** has been formulated specially to be used for sprayed concrete mix which is designed based on fly ash based **CEM II** cement. It can also be used with standard **CEM I** types cement. The dosage of **Hind Set LAF 100** can be adjusted to get the desired setting time and reduce rebound loss and at the same a healthy and safe working environment is achieved. **Hind Set LAF 100** is formulated to meet the requirements of **EN 934-5 - Admixtures for Sprayed Concrete**, **ASTM C 1141/C 1141M - Standard Specifications for Admixtures for Shotcrete** and **EFNARC - European Specification for Sprayed Concrete**.

USES

Hind Set LAF 100 is used and suitable for all applications to give high early strength, good final strength and achieving higher thickness in layers of sprayed concrete.

- Wet shotcrete.
- Grouting (back filling)
- Tunnels, Galleries, Mining
- Slope stabilization, Pit protection.
- Embankment and excavations
- Concrete repair work
- Shoring operation
- It can also be used for quick setting of cementitious grouts used in TBM tunnel lining and backfill concreting.

ADVANTAGES

Hind Set LAF 100 is advantageous and ideal for sprayed concrete wet mix.

- Completely free from alkalis
- Allows spraying to take place even at low temperatures and on wet substrate subject to slight infiltration.
- Speed up the work and contribute to excellent water tightness of the sprayed concrete linings.
- Improves overhead spraying and reduces rebound.
- Completely free from chloride, nitrate and alkali aluminate, alkali silicate, alkali carbonate based formulations.
- Eliminates alkali silica reaction even with reactive siliceous aggregate.
- The quick setting property allows wet sprayed concrete to be done in thick layers hence rapid work progress is achieved and extremely high early strength is achieved.
- Early compressive strength is attained during the first hour of operation after setting.
- High Final strength is achieved after 28 days with long term durability
- Low dust is produced during spraying which ensures a safe work environment.

APPLICATION

Hind Set-LAF 100 is to be added at the nozzle of a suitable dispensing/sprayed equipment. The dosage varies from 3% to 10% by weight of cement of the wet mix.

To obtain optimum performance the w/c ratio of the concrete mix to be maintained below 0.45 which also ensure fast setting at low dosages. A dosage of 6 % by weight of cement is suggested for 100 mm thickness of the spraying layer in single operation.

PROPERTIES

Aspect	Liquid Aqueous dispersion (Visual)
Colour	White/Beige (Visual)
Density (Kg/m ³)	1450 ± 25 (ISO 758) at 0 ^o C
Solid Content (% by mass)	50.0 ± 5.0 (EN 480-8)
pH	3.0 ± 0.5 (ISO 4316)
Chloride Content (% by mass)	≤ 0.10 (EN 480-10)
Alkali Content (% by mass)	≤ 1.0 (EN 480-12)

All technical data stated above is based on tests carried out in laboratory conditions.

SHELF LIFE

6 months from the date of manufacture in unopened container. The material should be stored under shed and away from direct sunlight at room temperature ranging between 5^o C (Min.) and 45^o C (Max.)

PACKING

In HDPE and Bulk Container. Other packing sizes available on demand.

HANDLING PRECAUTION

Hind Set LAF 100 is to be used as per guidelines. Safety Datasheet to be followed for application of the product. Recommendation to use protective equipment should be strictly followed for personal safety and protection.

Note:

- **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 behavior 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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(AN ISO 9001: 2015 COMPANY)

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