



HIND GRIND AID 400/450/500

PRODUCT DATA SHEET

LIQUID GRINDING AID FOR CEMENT PRODUCTION

DESCRIPTION

Hind Grind Aid 400/450/500 is a glycol based high condensed grade polymer modified liquid dispersing agent which is used as a grinding aid/ pack set inhibitor for production of Portland cement and all other hydraulic cements in the horizontal ball mill. **Hind Grind Aid 400/450/500** helps in de-coating the layer of fine moisten cement particles on the grinding platform and allowing a better collision. It conforms to **ASTM C 465** and is not harmful when added for the processing of cement.

USES

Hind Grind Aid 400/450/500 is used as a grinding aid for production of all grade of cement which improves the quality of cement.

ADVANTAGES

- The grinding efficiency of the media gets improved (anti-coating).
- The cement grinding process improves and the hourly output is increased.
- The grinding temperature is minimized.
- Over grinding is reduced.
- Resist agglomeration of cement particles.
- The flow characteristics of cement gets enhanced.
- The particle size distribution gets improved.
- Allows the filler content in composite cement to increase.
- Silo getting clogged due to material build up can be avoided.
- The quality and performance of cement is improved.

APPLICATION

- **Hind Grind Aid 400/450/500** can be proportioned as it is received. Dilution with water ranging from 10% to 70% is recommended normally for getting high proportioning accuracy and better distribution of the additive. Wherever the addition rate of the additive is considerably smaller, even higher dilution is recommended.
- Proper dispensing pump with adjustable flow rate for suitable dilution should be installed to get optimum performance.
- **Hind Grind Aid 400/450/500** is always suggested to be introduced into the first compartment of the finish grinding mill to achieve maximum distribution and performance of the product.
- **Hind Grind Aid 400/450/500** does not require any anti-freeze protection, since it possess an extremely low freezing point when needed for bulk installation. If the storage tanks is expected to be exposed below zero degree temperature, provisions is to be kept for hating the tank and lines to prevent the increase of viscosity and the pumpability does not get affected.

PROPERTIES

	Hind Grind Aid 400	Hind Grind Aid 450	Hind Grind Aid 500
Aspect	Brown Colour Liquid	Brown Colour Liquid	Brown Colour Liquid
Specific Gravity	1.04 ± 0.02	1.06 ± 0.02	1.08 ± 0.02
pH	7 to 9	7 to 9	7 to 9
Freezing Point	-16 ⁰ C to -3 ⁰ C	-16 ⁰ C to -3 ⁰ C	-16 ⁰ C to -3 ⁰ C
Viscosity	20 cps	20 cps	20 cps
Dosage	Ranging between 0.01 - 0.2% by weight, depending on the type of clinker used, mill type and required results.	Ranging between 0.01 -0.150% by weight, depending on the type of clinker used, mill type and required results	Ranging between 0.01 - 0.100% by weight, depending on the type of clinker used, mill type and required results

SHELF LIFE

Best before 12 months from the date of manufacture in original un-opened sealed condition.. Should be stored in a cool and dry place away from direct heat.

PACKING

Available in **225 Kg** HDPE Container or as required.

HANDLING PRECAUTION

Hind Grind Aid 400/450/500 is non-toxic and ingestion is to be avoided. Any contact with the skin must be washed with water. If contact with eyes occurs, wash well immediately with water and seek medical advice.

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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