

ShaliGrind 4000 / 4500 / 5000



Glycol Based Liquid Grinding Aid For Vertical Ball Mill

STP Limited

Description

ShaliGrind 4000 / 4500 / 5000 is a glycol based high condensed polymer modified liquid dispersing agent used as a grinding aid / pack set inhibitor for the production of portland and other hydraulic cements in horizontal ball mill. **ShaliGrind 4000 / 4500 / 5000** helps to de-coat the layer of fine moisture cement particles on the grinding media and allow better collision. It complies with ASTM specification C 465 as a non-harmful processing addition.

Characteristics

Properties	ShaliGrind 4000	ShaliGrind 4500	ShaliGrind 5000
Physical Appearance	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 – 9 approx	7 – 9 approx	7 – 9 approx
Appearance	Liquid	Liquid	Liquid
Freezing Point	- 16 °C to -3 °C	- 16 °C to -3 °C	- 16 °C to -3 °C
Viscosity	20 Cps	20 Cps	20 Cps
Dosage	0.05 – 0.2 % by weight, depending on type of clinker, type of mill and desired results.	0.05 – 0.150 % by weight, depending on type of clinker, type of mill and desired results.	0.05 – 0.100 % by weight, depending on type of clinker, type of mill and desired results.

Advantages

- Improves cement grinding by increasing hourly output.
- Improves the grinding efficiency of the media (anti – coating).
- Decreases grinding temperature.
- Avoids agglomeration of the cement particles.
- Reduces over grinding.
- Improves flow characteristics of cement.
- Allows increase in filler content in composite cement.
- Improves particles size distribution.
- Reduces silo clogging due to materials build-ups.
- Improves quality and cement performance

Application Methodology

- **ShaliGrind 4000 / 4500 / 5000** may be proportioned as received. However dilution by 10 to 70 % with water is normally recommended in order to facilitate greater proportioning accuracy and better additive distribution. Where extremely small addition rates are used, even greater dilution is recommended.
- For dilution suitable dispensing pump with adjustable flow rate should be used for optimum performance
- Very desirable to introduce **ShaliGrind 4000 / 4500 / 5000** into the first compartment of the finish grinding mill to affect maximum distribution and efficiency of the product
- Since **ShaliGrind 4000/4500/5000** has a very low freezing point, no anti-freeze protection is needed in bulk installation. Where it is expected that the storage tanks will be exposed to below zero temperatures, provisions should be made for insulating and heating the tank and lines in order to prevent excessive viscosity and to aid pump-ability.
- Competent field test engineers are available for aiding in mill test evaluation of **ShaliGrind 4000/4500/5000**.

Health & Safety

- Use goggles and hand gloves while handling the product.
- All precaution as per defined in MSDS must be followed.

Packing

Available in 200 kg drum.

Storage

Store in a cool dry place under shed away from heat.

Shelf Life

12 months in original unopened sealed condition.



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Repairs & Rehabilitation
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