



ULTRA GRINDING AID

Ultra Grind 4000 / 4500 / 5000

Glycol Based Liquid Grinding Aid For Vertical Ball Mill

Admixtures

Surface Treatments

Protective Coatings

Concrete Repairs

Industrial Flooring

Grouts & Anchors,

Adhesives,

Water Proofing

Sealants

Description

UltraGrind 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 vertical ball mill. **UltraGrind 4000 / 4500 / 5000** helps to de-coat the layer of fine moisten 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	UltraGrind 4000	UltraGrind 4500	UltraGrind 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

- **UltraGrind 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 **UltraGrind 4000 / 4500 / 5000** into the first compartment of the finish grinding mill to affect maximum distribution and efficiency of the product.
- Since **UltraGrind 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 **UltraGrind 4000/4500/5000**.

Health & Safety

Use goggles and hand gloves while handling the product.

Packing

Available in 220 kg drum and Bulk

Storage and Shelf Life

Store in a cool dry place under shed away from heat. 12 months in original unopened sealed condition.



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