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TECHNICAL DATA SHEET

GlucoSol® 235

GlucoSol® 235 is suited for use in gypsum, lime and cement based systems. GlucoSol 235 polymer is a highly substituted natural polysaccharide designed to enhance formulations in areas of rheology modification, workability, water retention, crack resistance, adhesion and sag-resistance.

Advantages in Cement and Gypsum Based Systems

- Rheology modification and Thickening
- Water retention
- Anti-sag
- Bond/Adhesion
- Open time/ Working time
- Enhanced workability, slip
- Decrease stickiness

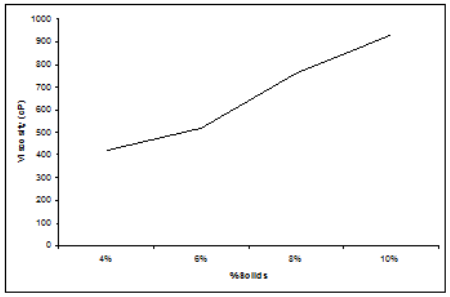
Main Applications

- Cement based renders
- Tile adhesives
- Neutral and Alkaline Gypsum based plasters

Appearance

GlucoSol 235 is supplied as an off-white powder. Aqueous solutions are translucent and demonstrate excellent stability.

Effect of Solids Concentration on Viscosity



Solution Preparation

The powder form of GlucoSol polymers readily solubilize in water. To avoid lumping of the polymer, preparation of aqueous solutions require the addition of GlucoSol to the vortex of mechanically agitated water. Maintain for a period of about 20 minutes to ensure separation and complete hydration of individual particles. Any agglomerates that initially form will break down with normal agitation and time.

The character and amount of agitation required will vary with solids concentration of the polymer and water temperature. High solids and cold water make-up may necessitate longer agitation time.

Solution Preservation

The chemical substitution of GlucoSol 235 provides enhanced solution bio-stability. Extended storage of solutions could result in viscosity reduction due to microbial or enzymatic attack. Stored solutions should be protected by the use of a preservative. GlucoSol 235 is available with a preservative treatment.

Storage, Handling and Safety

GlucoSol 235 exhibits good storage stability if kept dry in its original package. Shelf life can be affected by storage conditions such as temperature, humidity and overall surroundings of the storage area. A Material Safety Data Sheet is available from Chemstar and should be consulted prior to handling or use.

Availability

GlucoSol 235 is available in 50 lb multi-wall poly-lined paper bags or 2,000 lb super sacks for truckload and LTL shipments. For additional information, samples or technical assistance in using GlucoSol 235 or any other Chemstar product please contact 1-800-328-5037 or info@chemstar.com.

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Typical Analysis of GlucoSol 235 Polymer

	GlucoSol 235
Viscosity (cps), 6% Solids LVT, 60 rpm, #4 spindle	400 – 1,000
Percent Moisture (%)	10 max
Bulk Density (lbs/ft^3)	30 – 40
Particle Size (% thru)	100% (-) 600 micron 70% minimum (-)150 micron

Typical Addition Rates

	GlucoSol 235
Cement based mortars	0.01 – 0.05%
Cement based tile adhesives	0.03 – 0.1%
Gypsum based plasters	0.02 – 0.1%