

# GlucoSol® 224

GlucoSol® 224 is a highly substituted natural polysaccharide designed to impart enhanced functional properties including: solution stability, salt tolerance, surface activity, water retention, improved rheology and viscosity.

GlucoSol 224 is particularly designed to function in a multitude of building materials to enhance specific formulations in areas of rheology, thickening, workability, water retention, crack resistance, adhesion and sag-resistance.

## Application Properties

- Rheology modification and Thickening
- Water retention
- Binding
- Bond/Adhesion
- Lubrication
- Film Formation
- Flocculation
- Suspension

## Main Applications

- Joint compound
- Spray textures
- Quicksets

## Appearance

GlucoSol 224 is supplied as an off-white powder. Aqueous solutions are translucent and demonstrate excellent stability.

## Solution Preparation

GlucoSol 224 readily hydrates in water. Preparation of aqueous solutions requires the addition of 224 to the vortex of mechanically agitated water at ambient temperature. Maintain agitation for a period of about 20 minutes to ensure separation and complete hydration of individual particles. Any agglomerates that initially form will break down through 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 224 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 224 is available with a preservative treatment.

## Storage, Handling and Safety

GlucoSol 224 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 224 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 224 or any other Chemstar product please contact 1-800-328-5037 or [info@chemstar.com](mailto:info@chemstar.com)



**Typical Analysis of GlucoSol 224 Polymer**

GlucoSol 224	
Viscosity (cps), 6% Solids LVT, 60 rpm, #4 spindle	2500 – 4500
Percent Moisture (%)	10 max
Bulk Density (lbs/ft <sup>3</sup> )	30 – 40
Particle Size (% thru)	100% (-) 600 micron 60% minimum (-)180 micron

**Typical Addition Rates**

GlucoSol 224	
Joint Compounds	0.10 – 0.50%
Spray Textures	0.10 – 0.75%

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