

GlucoSol® 927

GlucoSol® 927 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 927 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

Features

- Rheology modification and Thickening
- Flocculation
- Suspension
- Adhesion
- Binding
- Colloid protection
- Film formation
- Water Retention
- Shear Resistance

Main Applications

- Joint Compounds
- Quicksets

Appearance

GlucoSol 927 is an off-white powder. Aqueous solutions are translucent and demonstrate excellent stability

Solution Preparation

GlucoSol 927 readily hydrates in water. Preparation of aqueous solutions requires the addition of 927 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 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 927 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 927 is also available with a preservative treatment.

Storage, Handling and Safety

GlucoSol 927 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 Safety Data Sheet is available from Chemstar and should be consulted prior to handling or use

Availability

GlucoSol 927 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 927 or any other Chemstar product please contact 1-800-328-5037 or info@chemstar.com.



Typical Analysis

GlucoSol 927	
Viscosity (cP), 6% Solids LVT, 60 RPM, #4 Spindle	3000 – 6000
pH (6% Solids)	10.5 – 11.3
Percent Moisture (%)	10 max
Bulk Density (lbs/ft ³)	30 – 40
Particle Size (% thru)	100 (-) 600 micron

Typical Addition Rates

GlucoSol 927	
Joint Compound – Thickener Replacement	0.10 – 0.20

Disclaimer: The information contained in this bulletin is correct to the best of Chemstar's knowledge and is intended only as a source of information. The recommendations or suggestions herein are made without guarantee or representation as to the results. In addition, Chemstar suggests that you evaluate the recommendations contained in this bulletin in your own laboratory prior to use. Chemstar's responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material. No statement in this bulletin is to be construed as violating any copyright or patent.

