

# GlucoSol® 721

GlucoSol® 721 is a new entry in the Chemstar water-soluble product line. It 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® 721 offers a unique alternative to competitive natural and synthetic water-soluble polymers

## Advantages

- Rheology modification
- Thickening
- Water retention
- Anti-sag
- Bond/Adhesion
- Open time/ Working time
- Enhanced workability, slip
- Decrease stickiness
- Crack Resistance
- Surface Hardness
- Extended Coverage

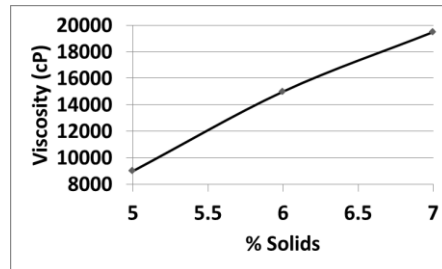
## Main Applications

- Joint Compounds
- Quicksets
- Spray Textures
- Plasters
- Tile Cements

## Appearance

GlucoSol 721 is an off-white powder. Aqueous solutions are translucent and demonstrate excellent stability

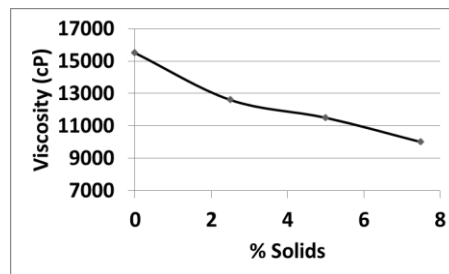
## Effect of Solids Concentration on Viscosity



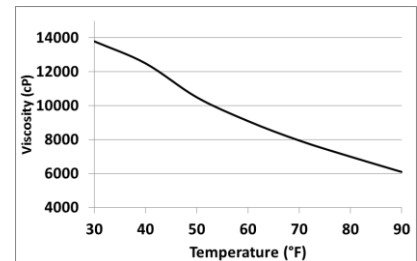
## Solution Preparation

GlucoSol 721 is readily soluble in water with rapid hydration. Sufficient agitation is necessary to avoid excessive lumping of the polymer as it is added to the solution. The time and amount of agitation required for complete hydration of the polymer will vary with solids concentration and water make-up temperature.

## Effects of Shear on Viscosity



## Effect of Temperature on Viscosity

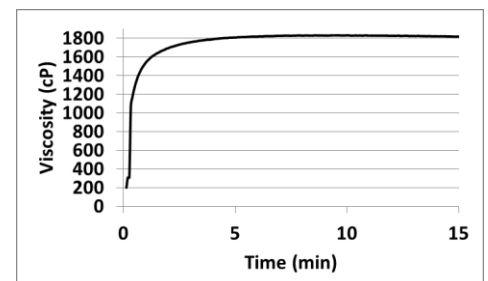


## Solution Preservation

The chemical substitution of GlucoSol 721 provides enhanced solution bio-stability. Extended storage could result in viscosity reduction due to microbial or enzymatic attack. Stored solutions should be protected by the use of a preservative. GlucoSol 721 is also available with a preservative treatment.

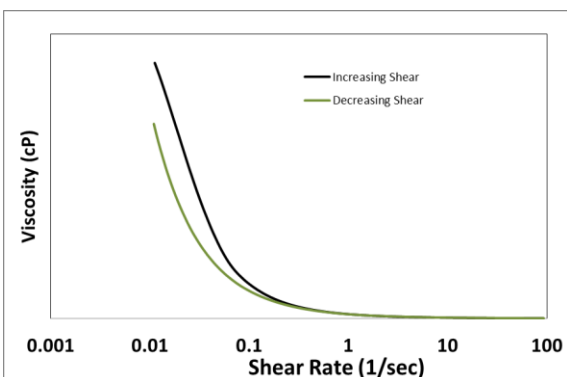
## Unique Hydration

GlucoSol 721 is designed for use in ready-mix and setting type wall treatment compounds where water retention, workability, thickening and adhesion are desired. The near pseudoplastic nature of its solutions is ideal for use in sprayed texture compounds where anti-sagging is critical.



## Thixotropy

Solutions of GlucoSol 721 exhibit near pseudoplastic behavior. Viscosity decreases with increasing shear and when the shear is removed the original viscosity is immediately recovered. Thixotropic solutions regain their original viscosity with a time element



## Storage, Handling, and Safety

GlucoSol 721 exhibits excellent 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 and should be consulted prior to handling or use.

## Availability

GlucoSol 721 is available in 50 lb. multi-wall poly-lined paperbags or 2000 lb supersacks for truckload and LTL shipments. Please contact Chemstar for additional information, samples or technical assistance in using this or any other Chemstar product.

## Typical Analysis

GlucoSol 721	
Viscosity (cP), 6% Solids LVT, 30 RPM, #4 Spindle	14500 – 17500
Percent Moisture (%)	10 max
Bulk Density (lb/ft <sup>3</sup> )	30 – 40
Particle Size (% thru)	95% min (-) 105 Micron

## Typical Addition Rates

GlucoSol 721	
Spray Texture	0.10 – 0.50
Joint Compound	0.10 – 0.50

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