

StarBond® 100

StarBond® 100 is a cold-water soluble, low viscosity, non-ionic polymer for use in industrial applications. It is a natural polysaccharide designed to impart enhanced functional properties including: adhesion/binding, water retention, improved rheology and viscosity. StarBond 100 is an excellent product for binding and adhesive applications where economics is important.

Applications

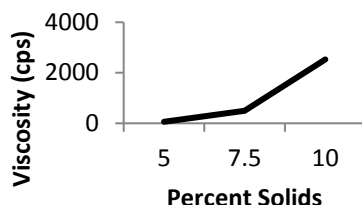
StarBond 100 is specifically designed for use in ready-mix and setting type wall treatment compounds to provide adhesion and binding of the compound to the substrate. StarBond 100 also offers other properties such as water retention, enhanced workability, and thickening.

Properties

- Lubrication
- Adhesion
- Thickening
- Suspension
- Colloid Protection
- Film Formation
- Binding
- Water Retention

Appearance

StarBond 100 is an off-white powder. Aqueous solutions are translucent and demonstrate excellent stability.



Effect of Solids Concentration on Viscosity

Hydration

StarBond polymer hydrates quickly due to its powder form.

Solution Preparation

The powder form of StarBond 100 is readily solubilized in water. To avoid lumping of polymer, preparation of aqueous solutions requires the addition of StarBond 100 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.

Solution Preservation

Extended storage of StarBond 100 solutions could result in viscosity reduction due to microbial or enzymatic attack. Stored solutions should be protected by using a preservative. StarBond 100 is also available with built-in preservation.

Availability

StarBond 100 is available in 50 lb multi-wall poly-lined paper bags for truckload and LTL shipments. For additional information, samples or technical assistance in using StarBond 100 or any other Chemstar product please contact 1-800-328-5037 or info@chemstar.com

Storage, Handling and Safety

Because of the hygroscopic nature of StarBond, it is highly recommended that the material be stored in its original package in a dry facility. 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.



Typical Analysis

StarBond 100	
Form	Powder
pH (6% Solids)	5.5 – 7.5
Moisture Content (%)	12 max
Particle Size (% thru)	100 (-) 500 micron
Density (lb/ft ³)	35 – 45
Appearance	Off-White
Ionic Character	Nonionic

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