

StarBond® 140

StarBond® 140 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 140 is an excellent product for binding and adhesive applications where economics is important.

Applications

StarBond 140 is specifically designed for use in adhesive applications such as paper bag and tube windings. Solutions of StarBond 140 do not gel or setback.

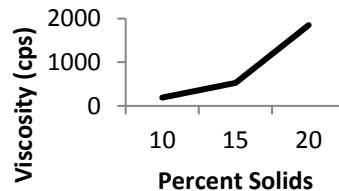
Properties

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

Appearance

StarBond 140 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 140 is readily solubilized in water. To avoid lumping of polymer, preparation of aqueous solutions requires the addition of StarBond 140 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 140 solutions could result in viscosity reduction due to microbial or enzymatic attack. Stored solutions should be protected by using a preservative. StarBond 140 is also available with built-in preservation.

Availability

StarBond 140 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 140 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 140	
Form	Powder
Viscosity (cps), 15% Solids, LVT, 60 rpm, #3 spindle	250 – 1500
pH (15% Solids)	5.0 – 8.0
Moisture Content (%)	12 max
Particle Size (% thru)	75 (-) 250 micron
Density (lb/ft ³)	35 – 45
Appearance	Off-White
Ionic Character	Nonionic

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.

