



STL-PDS-NA-Polycup 9130

Polycup™ 9130 polymeric resin

Product Description

Polycup™ 9130 polymeric resin is a high-efficiency, thermosetting crosslinking resin that is low in absorbable organic halides (AOX), less than 1000 ppm suitable to use for indirect food contact or personal care applications. Polycup 9200 is 20% active solids in aqueous solution.

Polycup 9130 is based on a highly reactive polyamide epichlorohydrin chemistry providing both strength and functional crosslinking to a broad range of applications having hydroxyl, carboxyl, protein, thiol and amine functional groups. Commonly used as crosslinkers in adhesives, inks, top-coatings, and other barrier finishes, these resins promote water resistance in polymer systems that are typically water soluble or sensitive, as well impart toughness and improve adhesion to low surface energy substrates. This level of performance is made possible by higher mole functionality on the resin polymer through both polymer optimization and precise functional group selection.

Polycup products are well suited to replace formaldehyde or glycol in many applications resulting in a much wider process conditions. Ideally process conditions call for pH in the range of 7–9. Cure with applied temperature range of 80–150 °C facilitates a higher rate of crosslinking.

Product Application

Addition rates for Polycup products typically are below 10% on an active solids basis and may be as low as below 1%. Product expertise and technical support is available by contacting your Solenis representative. Field studies and testing is the only means to determine precise, optimal dosage rates as well as fit for use.

Polycup products are generally compatible with cationic and most non-ionic materials. Compatibility with strongly anionic materials should be tested specifically for each application. Dilution of Polycup, slow addition of Polycup to the formulation, and maximizing separation of addition of cationic and anionic additive may aid in producing a stable formulation.

Curing Conditions: Concentration, time, temperature, and system pH affect the degree of cure and rate of crosslinking. Ideal cure conditions will occur at pH 7-9 at temperatures in the range of 100-150 °C. Some natural crosslinking will occur at room temperature over a two-week period.

Polycup 9130 is to be used in accordance with control procedures Solenis has established for a specific application.

Benefits

- Crosslinks a broad range of functional groups as well self-crosslinks forming a crosslinked network
- Water-based formulation
- Formaldehyde free
- Reactive over a wide pH range (4-11)
- Low viscosity, low odor liquid

Packaging

This product is available in a variety of packaging sizes. Your Solenis representative will recommend the appropriate packaging for the application.

Important Information

Typical Properties: Refer to the Safety Data Sheet (SDS).

Regulatory Information: Refer to the SDS or contact your sales representative for any additional regulatory and environmental information.

Safety: Solenis maintains an SDS for all of its products. Use the health and safety information contained in the SDS to develop appropriate product handling procedures to protect your employees and customers.

Our SDS should be read and understood by all of your supervisory personnel and employees before using Solenis products in your facilities.