Isoset™ adhesives

for construction and engineered wood products
We at Ashland are passionate, tenacious, solvers who thrive on developing practical, innovative, and elegant solutions to complex problems in wood bonding, always pushing the boundaries of what’s possible, and advancing the competitiveness of our customers in the building and construction industry.

Our people bring exceptional product knowledge, technical support and industry insights to help our customers amplify the efficacy, refine the usability, add to the allure, ensure the integrity, and improve the profitability of their products and applications.

Isoset™ adhesives meet the requirements of ASTM 2559 while being solvent free. These high performance products provide increased strength and clean bond line appearance.

**Isoset polyurethane emulsion polymer (PEP) adhesive**

Isoset UX-100 series adhesives is a two-part system based on 100 percent reactive polyurethane adhesive blended with conventional Isoset emulsion. This system offers faster green strength and faster complete cure times, while providing excellent bonding properties for less than perfectly machined tolerances. Isoset UX-100 series adhesives has been used successfully on structural fingerjoints and wooden I-joists, as well as web-to-web applications for making I-joists where no preparation is needed (butt joints).

**Isoset emulsion polymer isocyanate (EPI) adhesive**

Water-based Isoset adhesives use a two-part emulsion polymer isocyanate technology to produce bonds with excellent creep, shear and tensile properties. Parts bonded with Isoset adhesive are extremely durable and offer outstanding resistance to moisture and humidity. Isoset adhesives have been specified for engineered wood (I-joist, glulam, LVL, vertical studs, etc.), millwork, hardwood flooring, structural foam core panels and structurally insulated panels (SIPs).

**ATTRIBUTES**

- Excellent structural properties
- Cure at wide range of temperatures
- Water-based
- Cleans up with water
- Contains no formaldehyde
- Moisture and solvent resistant
- Neutral color – no red stains
- Cure at neutral pH
- Environmentally acceptable

**BENEFITS**

- Facilitate web-to-web butt joints in I-joists
- Tolerance to the moisture contents of wood
- Fast cure
- Achieves strength faster than competing adhesives to optimize production
- Designed specifically for soft woods used in EWP applications

**APPLICATION METHODS**

- Extrude
- Roll Coat

**CURING TECHNIQUES**

- Cold Press
- Hot Press
- RF Cure
Adhesive Design

The outstanding performance of Isoset adhesives reflects a customer-driven culture that strives to provide products that meet or exceed the expectations of the markets we serve. Our experience in urethane chemistry results in effective and efficient adhesive technologies for the engineered wood market.

Application Development and Lab Support

Ashland has experience with and understands the end-use performance demands of many applications. With our on-site lab support we put this expertise to work to develop products that fit the needs of your specific application.

Technical Service

Ashland is committed to providing exceptional technical services. Ashland technical service representatives are regionally located to assist customers with adhesives knowledge and expertise. The technical service programs are designed to address the following items:

- Production line efficiencies
- Assist in the selections of adhesive related equipment
- Review and recommend new adhesive technologies
- Improve product quality
- Evaluate new substrates

Ashland acts as a true partner to its customers, providing customized solutions that add tremendous value to their products or their processes. We relentlessly pursue ways to transform the efficacy, usability, allure, integrity and profitability of our customers’ products.

Each of these five qualities can manifest in different ways for different industries. Our customers enjoy better product integrity from ingredients that are of consistent quality, naturally derived, or have less environmental impact than competitive ingredients. Often, our team of solvers help our customers manufacture their products more profitably. Ultimately, downstream users – be they processors or end consumers – benefit from goods that are more effective, more easily used, more environmentally compatible, or more appealing. It is in these ways that Ashland’s people around the globe are always solving.
The information contained in this brochure and the various products described are intended for use only by persons having technical skill and at their own discretion and risk after they have performed necessary technical investigations, tests and evaluations of the products and their uses. This material is for informational purposes only and describes products for use as ingredients in cosmetic products intended to enhance appearance and provide other cosmetic benefits. Certain end uses of some products may be regulated pursuant to rules governing medical devices or other regulations governing drug uses. It is the end user’s responsibility to determine the applicability of such regulations to its products. While the information herein is believed to be reliable, Ashland Inc. does not guarantee its accuracy and a purchaser must make its own determination of a product’s suitability for purchaser’s use, for the protection of the environment, and for the health and safety of its employees and the purchasers of its products.

Neither Ashland nor its affiliates shall be responsible for the use of this information, or of any product, method, formulation, or apparatus described in this brochure. Nothing herein waives any of Ashland’s or its affiliates’ conditions of sale, and no statement, information and data is to be taken as a guarantee, an express warranty, or an implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which Ashland and its affiliates assume legal responsibility. We also make no warranty against infringement of any patents by reason of purchaser’s use of any information, product, method or apparatus described in this brochure.