

Building Products Industry Solutions

Window Applications – Window Glazing



Window Glazing with Warm Applied Materials

Situation

Window glazing is the process of applying adhesive or sealant to the rabbet of a window or door sash. After the material is applied, an insulated glass (IG) unit is placed into the sash or frame to complete the assembly. Warm sealants immediately bond the glass to the sash (structural) and seal the window from the elements (water, air, snow, ice, UV, humidity, mildew, etc.).

Previous methods for window glazing include either the automatic or manual application of a traditional room temperature sealant or the manual application of butyl tape.

Problems

Several problems exist with either application method. First, adhesion with traditional sealants can vary from substrate to substrate (i.e. wood, vinyl and aluminum). These sealants have long cure times that often require several hours before handling strength is achieved. In addition, some of these sealants are neither paintable nor stainable. In fact, residual film or material squeeze-out creates a defective product that will require rework.

By contrast, glazing tapes are commonly used in the industry because they provide an immediate bond with adequate handling strength for all types of windows. However, taping is labor-intensive and the price per linear foot is expensive. In addition, the final assembly does not provide the same long-term durability as a sealant causing the window to weaken with age.

Window Glazing



BM200

Nordson Solution

The Nordson® system typically consists of a BM Series bulk melter (5-gal or 55-gal), a 24' high-flex hose and an AG900 dispense gun. An FP200 or AD41 handgun can be substituted for manual applications. The BM Series is ideally suited for curable or reactive heated sealants. The gear pump design provides positive displacement material flow and prevents moisture exposure and premature material curing that is common with competitive “piston-pump” systems.

Nordson also offers the Pro-Meter VDK for automated glazing tables that require precise metering and volumetric control of material output. The Pro-Meter series tracks the speed of the automation and eliminates “puddling” of sealant in corners and at the knit line.



AG900

Benefits

Warm Applied Materials vs. Traditional Sealants

- Higher green strength and fast cure times
- Stronger adhesion to all window substrates
- Maximizes work-in-progress
- Improves sealant mileage
- Competitively priced

Warm Applied Materials vs. Tape

- Stronger green strength for material handling
- Provides long-term durability
- Increases production throughput
- Reduces labor
- Cleaner operation with less waste
- Less expensive per linear foot

Industry: M070, Building Products

End Product: Residential/Commercial Windows

Application Code and Substrates: A462 – Wood, Vinyl & Aluminum

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Information on the type of adhesive, sealant, caulk, paint, or other material used in a particular application with or involving Nordson application equipment is for information purposes only. Nordson does not recommend the use of any particular material for particular applications. Customers are urged to contact material suppliers directly to obtain a recommendation on the type of material best suited for their particular application.

United States

Duluth, Georgia
Telephone: (800) 683-2314
Toll-Free Fax: (866) 667-3329

Canada

Markham, Ontario
Telephone: (905) 475-6730
(800) 463-3200
Fax: (905) 475-8821



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