

# Innovative Application Technologies for Wood Products

Helping you apply:  
Adhesives & Sealants  
Liquid Finishes • Powder Coating



## **When it comes to wood and furniture assembly and finishing, Nordson application systems can meet your every need.**

Nordson is a world leader in equipment and technologies used to apply adhesives, sealants and coating materials during woodworking assembly and painting operations.

Our application technologies are as varied as they are numerous. Hot melts, reactive adhesives, sealants and liquid adhesives are used in the manufacture of furniture, cabinets, windows, doors and building panels. Higher-solids, reduced-solvent liquid coatings and waterborne paints are applied as stains, primers, sealers and topcoats. And, new infrared and ultraviolet (IR/UV)-curable powder coatings and curing systems help to finish wood products and other heat-sensitive substrates.

Today, many woodworking professionals look to Nordson to deliver a wide range of environmental and performance benefits when adhesives and sealants, powder coatings and liquid finishes are applied to their products.

### **With Nordson application systems, you can:**

- **Increase production rates**
- **Reduce labor costs**
- **Increase product quality**
- **Increase production flexibility**
- **Save floor space**
- **Improve plant environment**



## **Expand your capabilities with innovative Nordson systems.**

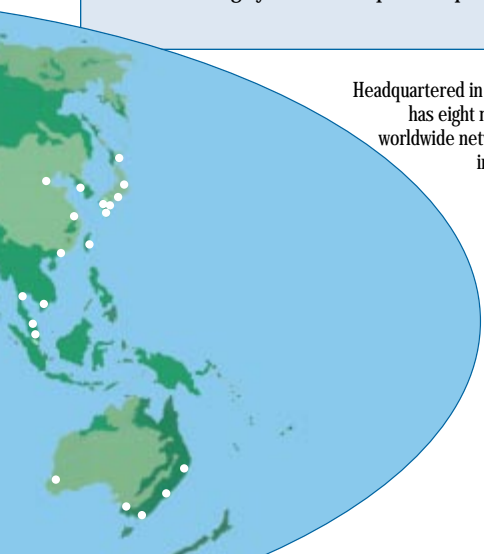
More than 30 years of experience in application technology gives Nordson the tools and knowledge to help meet your most demanding challenges. Think of Nordson ... for all your adhesive, sealant and coating application needs.

### **Adhesives and Sealants**

- Application of hot melt, reactive adhesive, cold adhesive, plural-component materials, silicones, polyurethanes, plastisols, butyls, and foamed sealants
- Slot coating, spray coating, roll coating and lamination
- Complete line of 2 kg, 5-gallon and 55-gallon PUR systems
- Manual and automatic application, including small, tank-fed handgun systems with bead extrusion and spray capabilities

### **Finishing**

- Rotary atomizer systems for solvent-based, waterborne and plural-component liquid coatings
- Safe, electrostatic voltage-block system for use with waterborne materials
- Complete line of automatic and manual electrostatic liquid application technologies, including HVLP, airless, air-assisted airless and air-spray systems
- Powder application equipment and systems for infrared and ultraviolet (IR/UV)-curable materials and other low-temperature-cure coatings for applying blackout coatings, color finishes and clear coats
- IR/UV curing systems for liquid and powder coatings



Headquartered in Westlake, Ohio, Nordson has eight major U.S. facilities plus a worldwide network of direct operations in more than 30 countries.



## Adhesives and Sealants

The quick-set capabilities of hot melt adhesives are ideal for the assembly of many wood products (see below). New polyurethane reactive (PUR) hot melts are an excellent choice for materials that are typically difficult to glue, sensitive to heat or must withstand environmental temperature extremes.

Nordson supplies equipment to apply these adhesives and ambient temperature sealants such as silicones,

## Adhesive and Sealant Applications

The manufacture of wood products involves many separate processes that combine to create a finished product. Nordson can help you apply adhesives and sealants for many applications. Examples include:

### Windows

- Backbedding
- Insulation barrier / attachment
- Profile wrapping
- Sealing
- Corner joint bonding

### Doors

- Lamination (outer/inner metal skin to insulation)
- Caulking
- Gasketing

### Kitchen and Bath Cabinets

- Component bonding
- Cabinet reinforcing
- Edge banding
- Component wrapping



polyurethanes, plastisols or butyls, and plural-component materials. Application systems are available in various sizes (small tanks to 55-gallon drums of adhesive); various methods of operation (handguns vs. fully automated systems); and various application techniques (spray, bead extrusion, or roll coating).

### **Furniture and Store Fixtures**

- Adhesive coating and laminating
- Component bonding
- Profile wrapping
- Edge banding

### **Countertop Manufacturing**

- Inner-cove postforming
- Edge banding
- Outer-cove postforming

### **Office Furniture and Partitions**

- Partition laminating
- Component bonding
- Work surface laminating

### **Building Panels**

- Lamination
  - FRP to particle board
  - Metal to hardboard
  - Insulation to hardboard

### **Flooring**

- Laminate flooring
- Accessories - profile wrapping



## Liquid Finishing

Traditional liquid finishing systems often can't meet today's need for environmental compliance and operating efficiency without sacrificing finish quality or performance. Innovative Nordson systems continue to change the way wood and wood products are manufactured and finished. Nordson offers several unique technologies that make it easy to convert existing paint lines to low-solvent, high-solids coatings or waterborne materials.

Nordson technologies include HVLP, air-spray, air-assisted airless and airless painting systems, rotary atomizers, plural-component dispensing systems and voltage-block systems. From simple, manual spray units to sophisticated automatic systems, Nordson application technology helps improve product appearance, finish durability and operating efficiency.



## **Powder Coating**

New infrared and ultraviolet (IR/UV)-curable powder coating materials and curing systems bring the environmental and performance benefits of powder coatings to the wood products industry. In the IR/UV process, these specially formulated blackout coatings, color finishes and clear coats harden and cure on wood products faster and at lower temperatures than conventional powder coating systems. Lower curing temperatures make UV powder coatings suitable for a variety of woods and engineered woods including particleboard, medium density fiberboard (MDF), oriented strand board (OSB), hardwoods and lumber.

Nordson can also provide the specialized equipment necessary to handle IR/UV-curable powder coatings. Nordson and its subsidiary A.C.T. Spectral, Inc., a manufacturer of curing ovens for IR/UV-curable materials, offer a complete line of applicators, control systems and curing ovens to apply and cure these coatings using conventional overhead conveyors and flat-line systems. This expertise has made Nordson a leading supplier of IR/UV powder application systems in North America.

## **Commitment to Total Customer Satisfaction.**

Manufacturers around the world use Nordson application technologies to improve their products, increase operating efficiency, reduce manufacturing costs and meet the challenges of a growing marketplace.

Each Nordson product comes with our exclusive Package of Values® program, which includes local sales and service support, application engineering, installation assistance, operator training and production testing. Every Nordson customer receives the benefits of our ongoing commitment to continuous improvement and total customer satisfaction.

### **For more information, contact the appropriate Nordson office listed below.**

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