

SURE COAT™ MANUAL SPRAY GUN SYSTEM

Selectable product-specific coating modes provide
peak performance in all applications.



Now you can achieve optimal coating performance on all products you paint.

Until now, all powder spray systems included only one set of electrostatic parameters, designed to provide acceptable performance across a wide variety of part configurations. But to achieve optimal coating performance, flat panels require a different set of electrostatic parameters than coating the inside of a cavity. And the electrostatics needed for touch-up operations are different from those for recoating painted parts. As a result, conventional powder spray systems cannot deliver high coating performance in all applications.

The Nordson Sure Coat™ powder spray system* provides a solution with patented Select Charge™ technology, which allows you to choose the ideal electrostatic parameters for your particular application. Now you can achieve a level of coating quality, efficiency and consistency never before possible.

For most applications, the standard kV-adjustable coating mode used with Automatic Feedback Current (AFC) control provides unmatched performance across the widest range of part profiles. Plus, you can select from three advanced coating modes, each optimized for difficult applications such as recoating, touch-up, and painting parts with deep cavities.

Automatic Feedback Current (AFC) Control.

Three coating modes can be operated with Automatic Feedback Current (AFC) control, which automatically maintains the gun current at an optimal operator-selectable level. In the AFC mode, the Sure Coat controller automatically adjusts the high-voltage output to maintain the optimal powder charge and external field strength regardless of the gun-to-part distance. This precise control is crucial for penetrating Faraday cage areas and for uniform powder deposition across the part. This provides the most consistent overall coating coverage and highest finish quality.

Operation is fast and easy. Simply press the AFC button on the controller and set the maximum current level. The Sure Coat



controller will automatically adjust the gun voltage to maintain the current within the preset level.

Operator-friendly control of the coating process.

The Sure Coat control unit is designed for ease of operation, with simple, easily identifiable controls. The operator simply selects the coating mode and begins to spray. To operate the Sure Coat system as a conventional spray gun, just press the "Standard" button and adjust the voltage.

The Sure Coat control also provides "constant-read" gauges, which display air-pressure and electrostatic parameters even when guns are not triggered on. This makes it fast and easy to control and maintain proper settings.

Ease of troubleshooting and maintenance.

The system includes self-diagnostics to reduce downtime, minimize rejects and facilitate troubleshooting. Each time the control unit is powered on, it conducts a self-test to ensure proper system operation. If an operating parameter falls outside a normal operating range during operation, the control will display a fault-condition icon corresponding to the failed parameter. By pressing the Nordson logo button on the front panel, the control unit will activate a self-diagnostics cycle to identify the specific fault.

An automatic, operator-resettable timer displays the cumulative time the gun has been in operation. This feature helps the operator monitor part wear to facilitate scheduling of preventative maintenance.



*Patents issued and pending.



Standard Mode:
Operator-adjustable voltage
 Highest transfer efficiency and
 uniformity across a wide range of part
 profiles



Coating Mode 1:
Recoating painted parts
 Delays back ionization for uniform
 coverage and reduced orange-peel
 effects

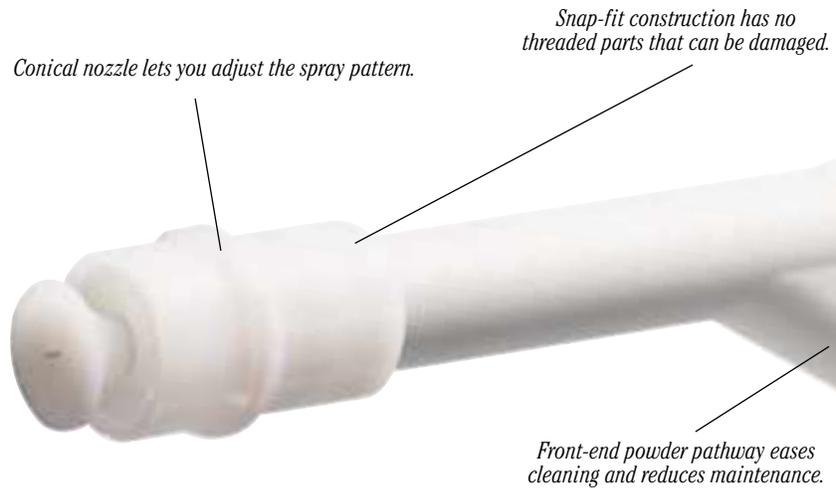


Coating Mode 2:
Touch-up operations
 High transfer efficiency and enhanced
 Faraday cage penetration



Coating Mode 3:
Deep cavity areas
 Enhanced penetration when the gun is
 placed inside a cavity

Setting a new standard in spray gun design.



The Sure Coat spray gun* is designed for superior performance, durability and operator comfort. No other powder spray gun on the market offers all these important features:

- **Extremely well balanced**, for better control and less operator fatigue.
- **Two handle inserts** allow the operator to customize the handle size for the most comfortable grip.
- **Purge button located on the handle** allows operators to spray air through the gun when needed to minimize the potential for powder build-up and surging. This feature is particularly effective when using powders that can agglomerate and impact fuse in the gun.
- **Front-end powder pathway** provides ease of disassembly for fast cleaning and maintenance.
- **Few parts inside the gun are exposed to powder impact**, which keeps replacement parts to a minimum.



Choice of two lengths minimizes the need for gun extensions.

- **Snap-fit construction** eliminates the maintenance problem of threaded parts that can be damaged or caked with powder.
- **Choice of two gun lengths** reduces the need for lance extensions when coating parts with deep recesses.
- **Pattern-adjustable conical nozzle** for improved spray-pattern control.
- **Standard air-wash feature** delivers a very low velocity stream of clean air to keep powder from accumulating on the electrode. The air-wash feature can improve coating performance with metallics and low-temperature-cure powders.

You can select from a wide range of spray nozzles.



*Patent applied for.



Few parts inside the gun are exposed to powder to keep replacement parts to a minimum.



Handle inserts create a more comfortable grip.

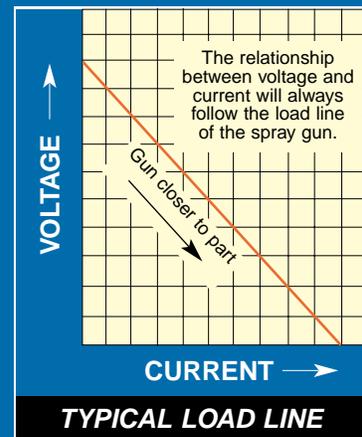


Convenient purge button helps maintain a cleaner powder path.



The Select Charge Process.

The key to Select Charge technology is its ability to provide different load lines, each optimized for a specific application. A load line represents the relationship between the gun voltage and current. As seen in the illustration, as the gun is moved closer toward the grounded part, the voltage decreases while the current



increases.

The flatter the load line, the higher the gun voltage at a given current. Flat load lines deliver the high voltage needed for applications such as coating flat panels. Steep load lines deliver lower voltage relative to current, which enhances penetration into Faraday cage areas.

Conventional powder spray guns are designed with only one fixed load line. Operators can adjust voltage and limit current, but the gun will maintain the same voltage/current relationship. This is why guns that provide excellent performance on flat panels can be less effective coating recesses.

Nordson Select Charge technology provides four operator-selectable load lines, each optimized for a specific coating requirement. This allows powder coaters to achieve superior performance across a wide variety of parts for consistently high transfer efficiency and finish quality.

Sure Coat systems designed for your operation.

Nordson offers Sure Coat systems in several configurations to meet your requirements. Dolly- and wall-mount packages are available with your choice of gun-cable lengths, hoppers and box feeders. You can also select from a wide range of spray nozzles and extensions.



Bring the benefits of Sure Coat technology to your operation.

Nordson Sure Coat spray gun systems can bring a new level of coating performance and operating flexibility to your powder coating operation.

Plus, all Nordson products are backed by a Package of Values™ that assures your satisfaction. The Nordson Package of Values includes quality products, strong service support, operator training and a commitment to deliver what was promised. And the Nordson Powder Systems Group is certified to the stringent standards of ISO 9001, which is your assurance of documented quality.

For more information on how Nordson can help make your powder coating operation

more productive and profitable, talk with your Nordson representative or call 800-626-8303. Outside the United States, contact the Nordson regional office listed

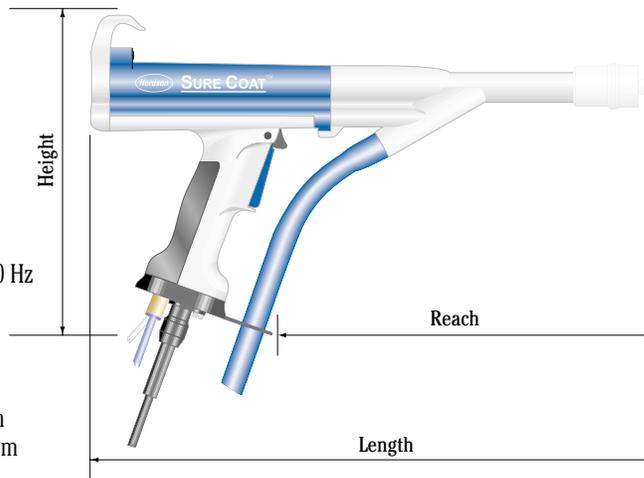


on the back cover. And be sure to visit us on the Internet at www.nordson.com.

Sure Coat System Specifications

Sure Coat Control Unit

- Height**
10 in. (254 mm)
- Width**
13 in. (330 mm)
- Depth**
6.25 in. (155 mm)
- Input Voltage**
85 - 240 VAC, 1 phase, 50-60 Hz
- Output Voltage**
6 - 21 VDC
- Input Air Pressure**
60 psi (4 bar) minimum
100 psi (7 bar) maximum
- Air Filtration**
Air must be clean and dry.



Sure Coat Spray Gun

- Input Voltage**
6 - 21 VDC
Maximum output 95 kV
Maximum output current 100 +/- μ5A
- Length**
Long version: 17.25 in. (438 mm)
Short version: 14.75 in. (375 mm)
- Reach**
Long version: 11 in. (279 mm)
Short version: 8.5 in. (216 mm)
- Height**
10 in. (254 mm)
- Gun Weight (w/o hose and cable)**
Long version: 560 g
Short version: 510 g



Nordson reserves the right to make design changes to products, which may occur between literature printings.

For more information, talk with your Nordson representative or contact your Nordson regional headquarters office.

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