

Powder Application Technologies

for the Pipe Industry

Today's most innovative powder coating systems

When it comes to the application of fusion bonded epoxy (FBE) and abrasion resistant overcoat (ARO) coatings for exterior pipe protection, turn to Nordson for today's most innovative technologies. Nordson systems incorporate the latest gun, pump and control technologies, offering you the highest levels of film thickness control, coating efficiency and material utilization.

With powder coating systems from Nordson, you'll benefit from:

- **True, closed loop digital flow control for consistent, repeatable application**
- **Reduced film build variation, allowing you to meet minimum thickness specifications without material waste**
- **High transfer efficiency to reduce powder reclaim**
- **New booth & recovery system alternatives**
- **High-density, low-velocity transfer & delivery potential**



iControl® Integrated Control System

In pipe coating, superior process control is the key to minimizing film thickness variation, improving finish quality and reducing material usage.

Nordson's iControl® System ensures consistent, repeatable powder output through closed-loop digital flow control technology, compensating for fluctuations in plant air pressure or other factors that might otherwise cause variations in powder flow and film thickness. iControl's 12-inch color touch screen provides a central operator interface, offering convenient gun set-up, operation and monitoring.



Ideal for use with any Nordson gun technology, iControl includes features and functionality particularly useful in pipe coating with its higher film build requirements and subsequent larger number of guns. These include:

- **Gun parameter copy function** – enabling you to copy settings for one gun to all others – makes gun set up quick and easy.
- **255 recipes (or presets) of gun electrostatic and powder flow parameters can be set, named and recalled with precision accuracy.** This allows you to optimize gun settings for different size pipe and other variances in job specifications.
- **The ability to make on-the-fly percentage powder flow adjustments to all guns at once.** This flexibility allows you to more quickly compensate for other process variations to maintain film build specification and efficient material utilization.

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Booth and Recovery Alternatives

Nordson self-contained cartridge collector booth systems can accommodate a wide variety of pipe sizes. For smaller diameter pipe, the fluidized recovery hoppers are positioned directly below the pipe as well as the filter collector module. Another design for smaller to larger diameter pipe features a chilled, moving belt directly below the pipe to quickly and continuously move any oversprayed powder into fluidized recovery hoppers in the filter cartridge module itself. Both provide much smaller overall footprint and operating efficiencies than conventional booth and bag house systems.



HDLV for Pipe Coating

Nordson HDLV (high-density powder, low-velocity air) technology is already in use for transporting large volumes of powder from the recovery system to sieving units while utilizing far less air. A high-capacity HDLV transfer pump with 272 kg (600 lbs.) per hour output from a fluidized recovery hopper can replace multiple conventional venturi transfer pumps and eliminate venting and other powder handling issues associated with the massive amounts of air required with conventional technology.

HDLV gun delivery pumps and HDLV spray guns with outputs of up to 45 kg (100 lbs.) per hour, providing softer, more efficient spray patterns, could well be the future of powder application in pipe coating.

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

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PWL-09-5419
Issued 12/09