



# Architectural Finishing



## ARCHITECTURAL FINISHING - THE CHALLENGES

Architectural and outdoor steel coating procedures have changed dramatically in the last several years. It is no longer acceptable to use airless or conventional air spray technologies in many areas due to the extreme overspray and the release of VOCs directly into the atmosphere. Traditional HVLP guns have not provided a viable alternative due to slower production speeds and poor finish quality, forcing many contractors to return to roll and brush coating in many situations.

The DUX gun can solve this problem. Because less air is trapped in the coating material as it is being laid onto the target's surface, a much higher mil build can be achieved in a single pass, without dripping or sagging. This allows operators to paint outdoor structures with fewer passes, decreasing production time and avoiding additional delays due to weather and other uncontrollable factors.

For residential coating professionals, the lack of overspray means much less worry about damage to surrounding structures or vehicles - allowing for spray painting in areas that would previously have been brushed or rolled. The reduction in overspray and fog also has a huge impact on indoor painting operations. Doors, cabinets, and trim can be painted without the massive masking and tenting effort currently required.

## THE DUX TECHNOLOGY

Efficient air transfer is the key to the Dux Technology. Conventional spray guns of both standard and HVLP types suffer from a considerable reduction of air pressure through their guns. Losses of greater than 80% are not uncommon. The HVLP gun has a very large clearance between the air cap and fluid tip. These guns require very large volumes of air to maintain an acceptable atomization. The result is atomized paint that is blown in all directions due to the expansion of air. The HVLP type of spray gun is limited by a lack of internal airflow efficiency.

The Dux airflow pattern and efficiency are patent-protected and, along with the air cap, are key to the performance of the Dux gun. Dux achieves an optimal 90% spray efficiency during the air and fluid movement through its gun.

## REGULATORY AND ENVIRONMENTAL ISSUES

Looking at the big picture of the coating industry, regulators, health and safety managers, and environmentalists have two overriding concerns. The first issue is the level of Volatile Organic Compounds (VOCs) that are released into the workplace. This is due to the composition or ingredients of the coating materials used throughout the industry. The second key issue is the level of VOCs that are released because of the low transfer efficiency of the spray guns used to apply the coatings. From an environmental and health and safety perspective, Dux solves this second issue. The Dux Technology has achieved a transfer efficiency rating greater than 90% at less than 10psi. Lower pressure means less overspray. Better design means: higher transfer efficiency; less wasted material; and a reduction of VOC's. That's a win for any operator.

### • IMMEDIATE ROI

- Reduced coating usage
- Decreased cleanup costs
- Faster production speed
- Energy savings

### • EASY TO USE

- Ergonomic design
- Lightweight and balanced
- Reduced booth fog and overspray

### • AIR QUALITY & SAFETY COMPLIANCE

- Drastic reductions in VOC emissions
- Reduced HazMat clean-up and disposal
- AQMD compliant by definition
- Fully CE marked & ATEX approved
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### • ADVANCED TECHNOLOGY

- Laminar airflow
- Low pressure with high velocity
- Exceptional atomization
- Outstanding utility across coatings and applications