OUTLINE

- What is a Dry-Fall Coating
- Why Use Dry-Fall Coatings
  - Overspray and Liabilities
  - Labor Savings
- Evolution of Dry-Fall Coatings
  - Interior vs. Exterior
  - Waterborne vs. Solventborne
  - Pros & Cons
  - Types of Dry-Fall Coatings Available Today
- How to Evaluate Exterior Dry-Fall Coatings
- Where are Dry-Fall Coatings being Used
- Open Discussion
WHAT IS A DRY-FALL COATING?

A coating, when spray applied, is powder dry in as little as 8–10 feet from the point of application.

Also known as:

Dry-Fog Coatings
Spray-Safe Coatings
WHY USE DRY-FALL COATINGS?

- Eliminate Overspray Worries in Congested Areas
  - Can be approved to use in no-spray zones
  - Avoids costly encapsulation
  - Alternative to Brushing & Rolling

OVERSPRAY
OVERSPRAY CLAIMS CAN BE COSTLY

Overspray can damage nearby cars, equipment and can also be a hazard to the environment.
Is Overspray a Concern?   Yes
WHY USE DRY-FALL COATINGS?

- Decrease Labor Costs (at least 4X faster than brushing and rolling)
  - Extend Maintenance Budgets
  - Complete Coating Repairs more Quickly—Less Down-Time
The Evolution of Dry-Fall Coatings

Originally formulated for interior applications, Dry-Fall or Spray-Safe technology was developed to offer a fast-dry/ less-mess solution for residential and commercial uses.

These formulas were traditionally offered in a flat finish only.

Over the years, formulas were adapted to move interior solutions to exterior solutions in both water-borne and solvent-borne options.
WATER-BORNE VS. SOLVENT-BORNE

Water-borne Coatings
- Water Soluble (solutions)
- Water Dispersible (Dispersions)
- Emulsions (Latex)
- Standard
- Low VOC/ VOC Exempt
- High Solids

Solvent-borne Coatings
- Water Soluble (solutions)
- Water Dispersible
- Emulsions (Latex)
- Standard
- Low VOC/ VOC Exempt
- High Solids
# Water-Borne Coatings: Pros & Cons

<table>
<thead>
<tr>
<th>Pros</th>
<th>Cons</th>
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<tbody>
<tr>
<td>Can reduce VOC and HAP emissions*</td>
<td>Usually lower solids/hard to control film thickness/runs &amp; sags</td>
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<tr>
<td>Good storage life</td>
<td>Flow properties and dry times change with humidity</td>
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<tr>
<td>Easy to clean up</td>
<td>Can promote flash rusting when used as a primer</td>
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<tr>
<td>Low odor</td>
<td>Longer dry times</td>
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<tr>
<td>Dried paint may be disposed of in a landfill as non hazardous waste</td>
<td>Reduced temperature resistance</td>
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*Not all waterborne coatings have lower VOC or HAPs ratings
### SOLVENT-BORNE COATINGS: PROS & CONS

<table>
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<tr>
<td>Available in low VOC and HAP ratings*</td>
<td>Can be more difficult to repair</td>
</tr>
<tr>
<td>Reduces number of spray applications to achieve target DFT</td>
<td>2-K products may have shorter pot life</td>
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<tr>
<td>Improves abrasion and mar resistance</td>
<td>Harder to clean up</td>
</tr>
<tr>
<td>More surface tolerant</td>
<td>Can have higher VOC content</td>
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<tr>
<td>Better adhesion/weatherability</td>
<td>Decreased flexibility in application equip.</td>
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TYPES OF EXTERIOR DRY-FALL COATINGS AVAILABLE TODAY:

- Alkyds
- Acrylics
- Epoxies
- Urethanes
- Zinscs
- Silicones
- Hybrids/ Copolymers
HOW TO EVALUATE EXTERIOR DRY-FALL COATINGS:

How do they measure up to your “go-to” standard coatings of the same vehicle type?

Compare:

- Adhesion (Elcometer or Crosshatch)
- Salt Spray Results (note hours)
- Weatherability/ QUV
- Thermal Shock (for high temperature)
Typical Applications

- Cranes / Tall Structures
- Storage Tanks
- Piping and Pipe Racks

and more
Typical Applications
(Continued)

High Temperature
Near Waterways
Complex Structures
and more
PROJECT PROFILE: STORAGE TANK, VICHOTRIA TX

The storage tank at this terminal was successfully coated with a Dry-Fall organic zinc primer, epoxy mid-coat, and urethane topcoat only 100 feet from a car dealership!
CONCLUSIONS

Every coating has advantages and disadvantages……but knowing how to best evaluate your own situation will help you best chose the correct system for your specific needs.

QUESTIONS?