

Slide 1

Coating
Methods and Applications


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Presenter



Frank Forrest

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Disclaimer

This presentation is not intended to be a comprehensive program covering all aspects of this topic. All technicians are encouraged to read and follow all applicable standards, codes and regulations related to this topic.

- ✓ It is the responsibility of each individual contractor to follow local building codes and licensing requirements and to work safely in accordance with OSHA guidelines.
- ✓ It is the contractor's responsibility to take proper precautions on each project to prevent cross contamination. Always take the health and safety of the building occupants into consideration before you conduct any cleaning procedures.
- ✓ All of the following tips are only general tips. They do not cover every situation and it is your responsibility to adapt these tips to the individual system you are working on.
- ✓ The Instructor is not responsible in any way for the work you perform after viewing this slide show. You are responsible for your own work.
- ✓ The views and opinions following are the instructors opinions and not necessarily the official position of the National Air Duct Cleaners Association.


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What We'll Learn

- Definition of Coating
- Importance
- Potential Hazards
- Application Methods
- Basic Equipment Maintenance

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Coating Methods and Applications

What's the difference?

These terms are used loosely in our industry


- Duct Sanitizing
- Duct Sealing
- Duct Coating



Using Chemical Products in HVAC Systems: NADCA PROVIDES GUIDANCE

NADCA POSITION PAPER
on Chemical Product Applications in HVAC Systems

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Duct Sanitizing

- Sanitizer: A sanitizer is a substance or mixture of substances that kills a high percentage (99.9%) of, but not necessarily all, bacteria on a surface. Technically, the EPA defines a sanitizer as a substance or mixture of substances that reduces the bacterial population in the inanimate environment (on surfaces and objects) by significant numbers (e.g., 3 log10 reduction or more), but does not destroy or eliminate all bacteria.

Source: "NADCA Position Paper on Chemical Product Applications in HVAC Systems."

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Duct Sealing

- Sealants are materials – liquids of varying viscosity or tapes - used to seal surfaces, joints, connections, gaps, and openings.
- These include, but are not limited to tapes, glue, mastic etc., and the main function is to prevent air leakage

Source: "NADCA Position Paper on Chemical Product Applications in HVAC Systems."

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Duct Coatings

- Coatings - Resurfacing materials (also known as repair coatings) are coatings that are applied to surfaces that show signs of damage or degradation.
- Additionally:
 - Some coatings have antimicrobial ingredients solely to preserve the coating and help retard the growth of mold and fungi on the coating film.
 - **In no case should a coating be used in lieu of source-removal cleaning of an HVAC system. Refer to ACR, the NADCA Standard for Assessment, Cleaning & Restoration of HVAC Systems – 2021 Edition.**


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ACR Standard

4.20.5
No cleaning process shall be performed that will damage a properly designed, installed, and structurally sound HVAC system and its components, or negatively affect the performance, operation, or normal life expectancy of the system.



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Assessment


But first! Changing up slightly.

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Educate Yourself



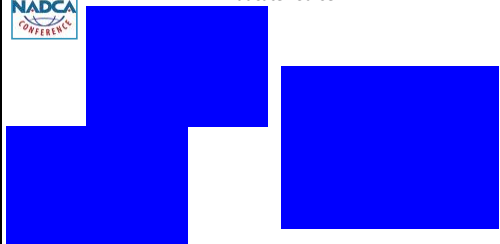
HVAC Coating

- Data sheet
 - ASTM E84
 - Safety Data Sheet
 - Product Capabilities
- PPE
- Any:
 - Challenges
 - Concerns
 - Safety issues


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Educate Yourself



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Educate Yourself

Liability!

HVAC Coating



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Assessment



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What to do?

What do you do? What are your options?
In all cases, the first thing you must do is to inspect the fiberglass to determine its condition.

- ❖ Can it stand up to the rigors of cleaning or does it fall apart when you touch it?
- ❖ Is it wet?
- ❖ Structural integrity?
- ❖ Is it pinned well?




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Access Is Key




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Importance



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Importance



Fiberglass Duct Liner
Understanding its importance in duct cleaning


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 Potential Hazards

⚠ DANGER

Pay Attention!
Duct Coating Can Be
Your Friend or....

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 Potential Hazards

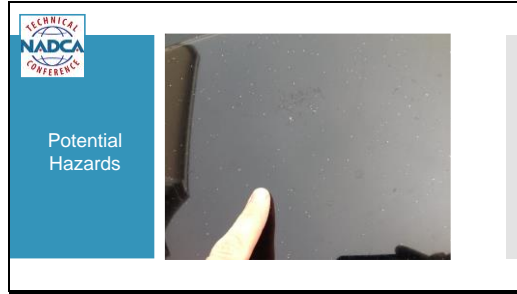


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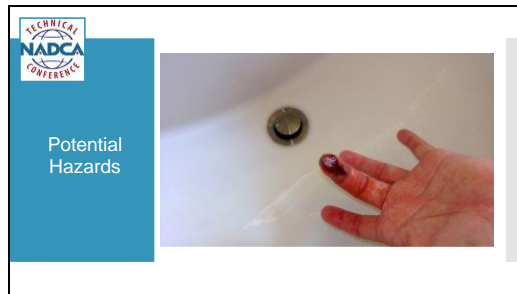
 Potential Hazards



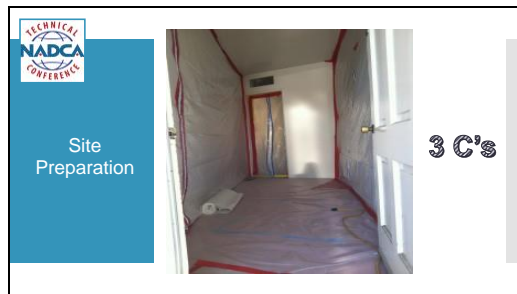
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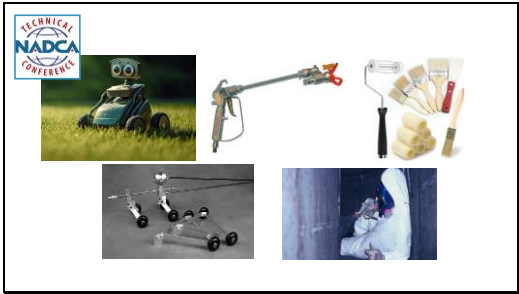
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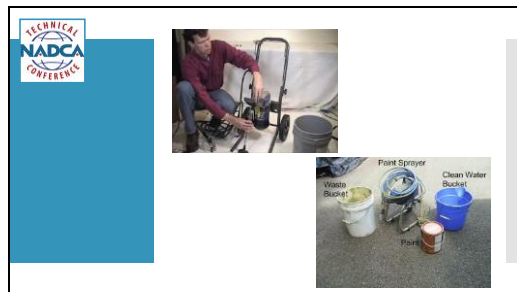
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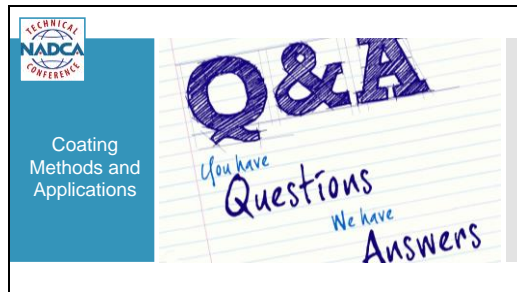
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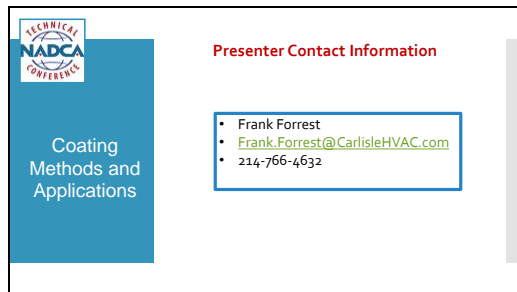
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Thank you
for
Participating!

