



Spray Foam Health, Safety and Quality Control Topics

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Commitment to a Health and Safety Program

- A Typical Health and Safety Program Contains:
 - Yearly Physicals
 - Pulmonary Function Checks
 - Respirator fit testing
 - DOT Physical and card required to drive trucks under 25,999lbs
 - Requirement for spray foam trailers?
 - PPE use and making sure items are stocked
 - We spend roughly \$200K per year on PPE items (we do more than just SPF)
 - It's not cheap!

Health + Safety Continued

- H+S Training:
 - Does your company have:
 - A written Health and Safety Program
 - SDS and HAZ-COM Training
 - Any OSHA Training (OSHA 10 / 30)
 - CPI Online Health and Safety Course
 - SPFA Certification
 - Manufacturer Certification
 - Independent Training from Parts and Material Distributors
 - Do you conduct yearly refresher training?
 - Most training is not just a one time event
 - A company needs someone to manage all the requirements
 - Extinguisher, fork lift, OSHA, Physicals, PPE, SDS, HAZ-COM, Driver training, SPF training....there are a lot of requirements

Health + Safety Continued

- Extra Health and Safety Ideas:
 - Blood monitoring
 - Air sampling during and after SPF Install
 - First Aid / CPR Training and Certification
 - Have your procedures and work practices audited through one of the State's Programs

Advantages to Blood Monitoring

- Employees have a baseline blood analysis
- Shows company and sprayers who is following through with the PPE requirements
- You can work towards reducing their levels
- Potentially reassign workers to other tasks depending on results
- Use results to modify your PPE plan



PPE!

Based on the foam manufacturers requirements.

Typically:

Supplied Air Full
Face Respirator

Tyvek Suit

Nitrile Gloves

For most jobs and
most foams, this is
the PPE
Requirement.

PPE Continued

Anchor's Spraying Foam or in the area of Sprayed Foam PPE Policy:

- Supplied Air (Interior + Exterior...There is no reason to use anything other than supplied air while spraying or within 50' of foam sprayed within 24 hours per our manufacturers specifications)
- Full Face Respirator
- Tyvek Suit covering entire body
- Nitrile Gloves

Anchor's Working in the truck policy:

- If our foam technicians aren't around foam being sprayed, and are working in the truck on rebuilds or maintenance then we require:
 - Full face cartridge respirator w/ Organic Vapor Cartridges
 - Tyvek Suit
 - Nitrile Gloves

Basically, if there is a chance for exposure we want our Foam Technicians wearing PPE.

PPE Continued

- Using the correct PPE is very easy. Its easy to put on a supplied air respirator. It is not much different than using a cartridge respirator. Tyvek suits and gloves are easy to put on as well....Use them!
- Someone needs to manage the PPE requirements at your company
- As a builder or contractor as you see spray foamers wearing this (or not) you need to question if you should be in the area without the PPE they are wearing

Quality Control

QC!

- Why:
 - Your installer's spray foam is a representation of your company. Check for and fill air pockets, cut out and re-spray areas where the foam may have pulled back.
 - So you can learn more about foam and help sprayers diagnose issues and get repairs done faster.

QC!

- Why:
 - Use the examples of air pockets or low adhesion to train your sprayers.
 - Typically issues are not caused by the sprayer but are due to an error of some sort with the equipment...explain that you aren't criticizing them but rather identifying symptoms of a different problem.

QC!

It's good to take samples to compare sprayers foam as well as show customers that your sprayers are following manufacturer's install techniques



Quality Control Continued

- Because sometimes foam shrinks, doesn't adhere, or peels away....



Develop a “Jobsite Safety Inspection Checklist” for Safety and QC Inspections

- Quick but effective.
- Lists PPE / Jobsite items to be looking for so that anyone who reads it should be able to tell what the spray teams require for PPE.
- Will allow you to develop patterns or be aware of areas that workers aren't compliant so that corrections can be made.
- Effective tool for times when discipline may be required.
- OSHA may require construction companies to conduct similar inspections.
- The form should also list ladders, staging, fall protection and other items that may not be required all the time but need to be used properly when required.



Industrial, Residential, Commercial and Marine, Refractory, Noise Control, Heating & Cooling, Fireplaces, Gutters, Waterproofing
Jobsite Safety Inspection Checklist

Your Name / Job Site Address / Date: _____

Crew Members on site and Truck #: _____

Employee Signatures: _____

Is the truck parked safely and correctly:

☐ Yes ☐ No Notes: _____

Does the truck have the required Safety Equipment / Information? (MSDS, HAZ-COM, Cones, Fire Extinguishers, Chocks...etc)

☐ Yes ☐ No Notes: _____

Do the employees have their Medical Cards (if drivers) and their OSHA 10 Cards?

☐ Yes ☐ No Notes (If "no" who is missing which cards): _____

Has the Crew conducted a Site Safety Check? (Are there railings on stairways and around holes in the floor)

☐ Yes ☐ No Notes: _____

Has the crew set up all equipment and is it being used correctly? (Ladders, Staging, Ventilation Fans...etc)

☐ Yes ☐ No Notes: _____

Is the site marked to prevent access to unauthorized people? (Are entryways or other designated areas sealed, Do Not Enter tape and signage in use) Notes: _____

☐ Yes ☐ No _____

Is the Correct Personal Protective Equipment being worn? (nitrile gloves, full face supplied air respirator, full tyvek suit, fall protection) Notes: _____

☐ Yes ☐ No _____

Is the Crew Operating in a safe manner according to jobsite policies?

☐ Yes ☐ No Notes: _____

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Customer Notification and Sign-Off Forms

- While verbal acknowledgement is a start, you should really use your manufacture's own form or develop your own customer spray foam acknowledgement form
 - **Topics to Include:**
 - Reoccupancy times based on your manufacturer (12 hour, 24 hour....48 hour...)
 - The need for a Thermal or Ignition barrier depending on codes and foam used
 - They've been given the MSDS (soon to be SDS) and the ESR Report to verify the "R" Values and other properties you've informed them of
 - The need for post spray foam ventilation
 - It is our policy not to go and spray a project before we've gotten the customer acknowledgement agreement back signed with the project name on it

Restricting Access to the Job site / Spray Area





Restricting Access

Use Signs, caution or do not enter tape and poly to inform others not to enter the work space

These are a couple of the signs that we use

	
WARNING	
	STAY OUT OF PREMISES WHILE FOAM IS SPRAYED AND FOR 24 HOURS AFTER SPRAYING IS COMPLETE
DO <u>NOT</u> ENTER UNTIL:	
DATE	_____
TIME	_____

	WARNING
Spray Foam Insulation spraying in progress. Respiratory protection required beyond this point	
	

This is the SPFA's new "Do Not Enter" Sign



WARNING ***ADVERTENCIA***



DO NOT ENTER ***NO ENTRAR***

Without Required Personal Protective Equipment (PPE)

before/*antes*: _____ (time/*tiempo*) _____ (date/*fecha*)

**Serious health hazard (chemical sensitization)
during and just after spray foam installation.**



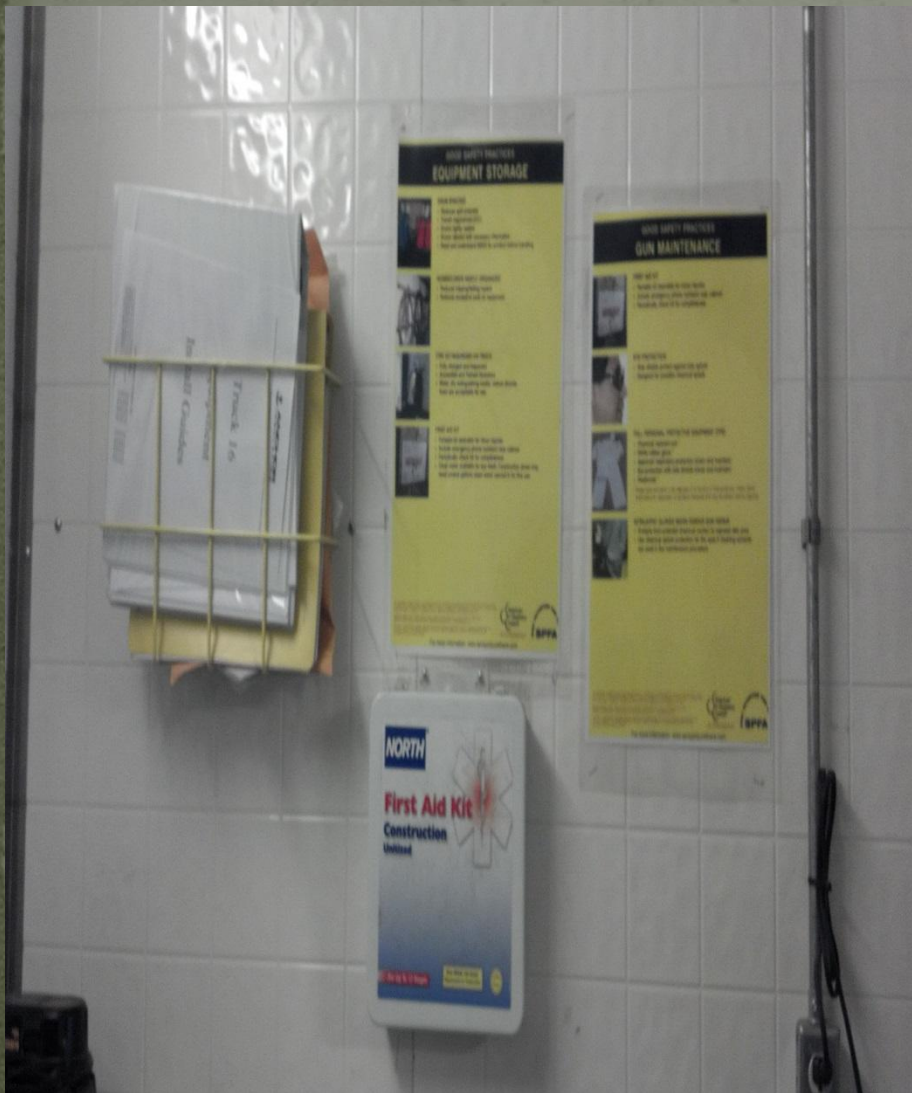
For ordering information, contact the
Spray Polyurethane Foam Alliance
1-800-523-6184 info@sprayfoam.org

SPF Contractor Info here

Wrapping up

- I am not perfect, Anchor is not perfect and all of us here are not perfect, but that doesn't mean we shouldn't be striving to work as safe as possible and produce the best foam we can and not cut corners on either aspect
- There are reasons why we conduct these site safety + QC inspections and they are to make sure our sprayers are following our procedures and safety requirements
- If you or your company are not doing these things now, it is a big change and is an adjustment but make it, stick to it and it will become the new norm

Pictures



Pictures continued



Pictures continued



Thank you

- Thank you all for your time today. I'd be happy to take any questions or talk afterwards
- I'm all for bettering the Spray Foam Industry and if you'd like to talk outside of here or have questions that come up later, I'll leave my business cards for you to take and call or email me any time

• Thank you.