



Do's and Don'ts of spray foam

Brian Cote

ICAA Spray Foam Task Force Chair



Spray Foam 101

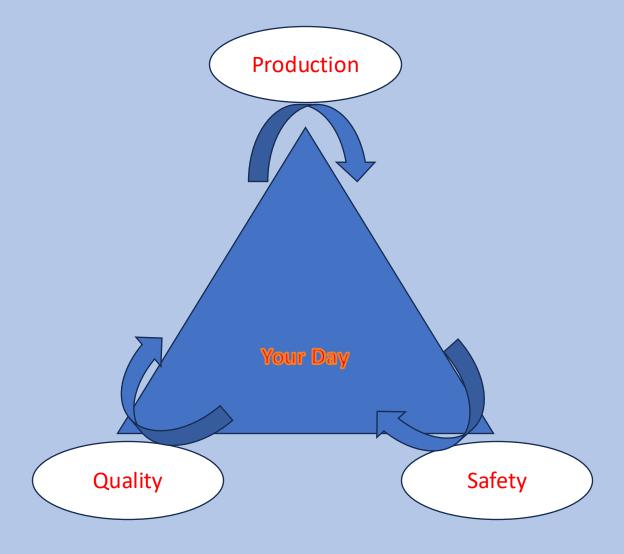


• ALWAYS WEAR THE CORRECT PPE for the environment you are in.



Spray Foam









- **Design Responsibility**. Purchaser accepts design responsibility. <u>Insulation contractor is not responsible</u> for design flaws.
- **Compliance.** Compliance with applicable federal, state, county, and local laws, building codes, rules, regulations, ratings, and permitting costs, fees, and taxes are the <u>responsibility of the purchaser</u>.
- **Certificate**. <u>Insulation contractor shall provide an R-value certificate</u> as required by code or law. Services provided shall meet the requirements of Federal Trade Regulation 460.





- Re-occupancy. Occupants and trade workers in structure where work is to be performed must evacuate before, during, and after the completion of the SPF application for _____ hours.
- Re-Entry. The amount of time Trade workers need to wait before they are allowed to re-enter the structure to work.
- Back charge Claims.
- a) No back charge or pro-rata expense charge against insulation contractor shall be valid except by an agreement in writing by insulation contractor before the work is executed, except in the case of insulation contractor's failure to meet any requirement of the contract.
- b) In such event, Purchaser shall notify insulation contractor of such default, in writing, and allow insulation contractor reasonable time to correct any deficiency before incurring any costs chargeable to insulation contractor.
- c) No back charge shall be valid unless billing is rendered no later than the 15th day of the month following the charge being incurred.
- d) Furthermore, any payments withheld under a claim of insulation contractor default shall be reasonably calculated to cover the anticipated liability and all remaining payment amounts not in dispute shall be promptly paid.





- **Job Ready**. <u>Purchaser will be responsible</u> for actual expenses incurred by insulation contractor as a result of Buyer's failure to have the contracted job ready for work when ordered for a specific date.
- Ignition and Thermal Barriers. <u>Insulation contractor shall</u> subscribe to the code requirements for ignition and thermal barriers.
- Overspray. It is expressly understood that as a normal part of installation there may be some overspray and splattering of material on surfaces in the attic areas including, but not limited to wiring, plumbing, mechanical equipment or ductwork. These areas are not subject to cleanup by the contractor.





- Attic Conditions. Attics must be accessible, clean, and free of loose equipment, materials or other debris.
- **Wires.** All wires must be fastened into place per code, as expansion of the foam and trimming may damage incorrectly fastened wires. Contractor is not responsible for repairs required due to this condition.
- Inaccessible Work. Contractor is <u>not responsible</u> for incomplete coverage due to work areas that are inaccessible, blocked, or obstructed prior to our installation



ICAA Model Written Respiratory Protection Program This is a model written respiratory protection program. The Occupational Safety & Health Administration (OSHA) Respiratory Protection Standard requires employers to establish and implement a written respiratory protection program with required worksite-specific procedures whenever respirators are required. This document shall be edited and completed by each company so that it addresses company-specific operations.

Gotta Have!



Your employer is required under OSHA Standard 1910.134 to ensure that you are medically certified to wear a respirit as part of your job. Based on the responses you have provided, the following describes the respirator use conditions a the physicians evaluation of your ability to wear the respirator.

MEDICAL CLEARANCE FOR RESPIRATOR USE

Employee Name: Brian, Cote Employee ID: 911-01

Date Tested: 5/10/2013 10:16:42 AM

Respirator Use Conditions

Respirator Profile	Foam Insulation		
Respirator Type	Full Face	Temp < 50 F	Yes
Work Effort	Light	Temp > 77 F	Yes
Extent of Use	Over 4 hours per day	Permit Required Confined Space	No
Oxygen Deficient	No	Humid Conditions	Yes
Protective Gear	Eye Protection (goggles, faceshield), Skin Protection (apron, coveralls, Tyvek suits), Gloves	Hyperbaric	No
Toxic Substances	Acids - Alkalis - Mists (ammonia, bleach etc)	High Altitude	No
Work Description	Spray foam insulation		

PHYSICIAN'S EVALUATION respirator use in the use cond estrictions on respirator use in the use conditions listed al Recertify: Per Company Policy or when there is a change in health or work conditions.

William H. Lohman, MD

5/10/2013 10:32:11 AM

Damarco Solutions, LLC 1807 Market Blvd #281 Hastings, MN 55033 Phone: 1-800-383-3393 Fax: 612-617-0990

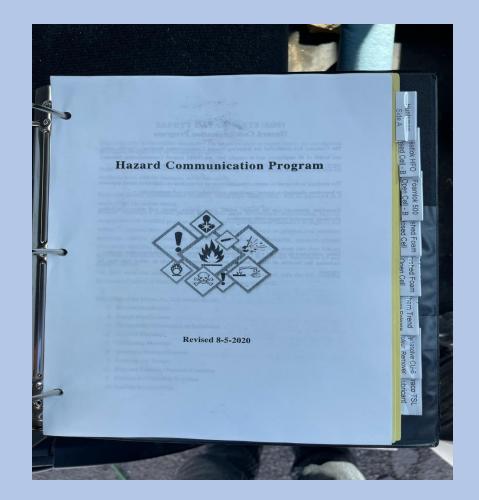


American Chemistry	Center for the Polyurethanes Industr
PLEASE LOGON	
Logon ID	
Password	(9)
(4-8 Characters)	
Forgot your pa	assword?



Gotta Have!



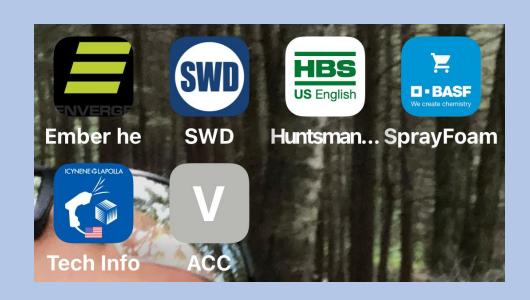


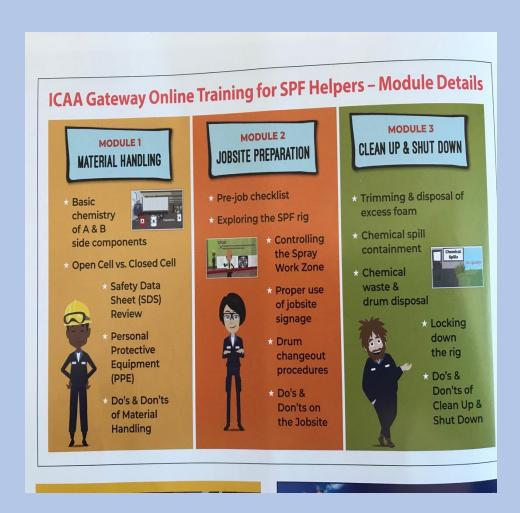




"App" to need









Storage Wars



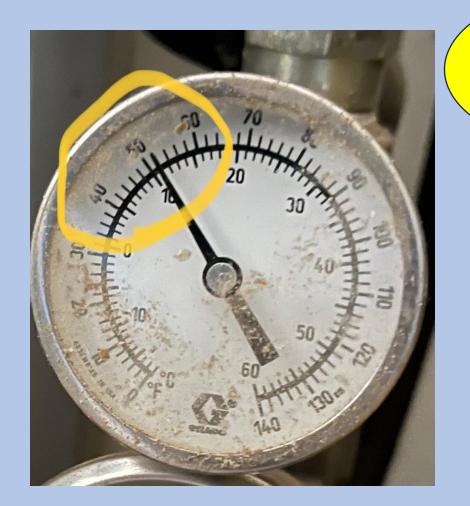






The importance of Temperature



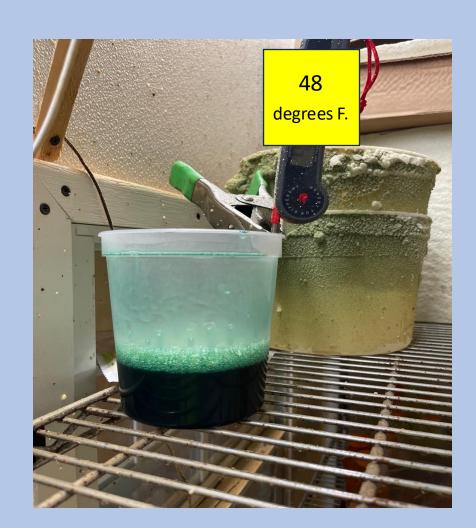


Know the Delta T of your equipment



An you think you're under pressure









"Tick Tock"







You will need











Disposal







Pour Up









Disposal











- Make sure homeowner/builder understand Re Occupancy and Re Entry times
- Right Sizing the HVAC system
- Thermal Barrier requirements
- Combustion Air





- Vents
- Odor

Removal of existing Insulation

Thickness





- Access
- Wiring
- Plumbing
- Lights and Heat source clearance





- Costs if the job is not ready upon arrival
- Parking
- Surfaces must be clean
- LVL's





- Concrete, (Cured for at least 30 days)
- Substrate temperatures and Moisture
- Humidity
- Heat





- Walk the job
- Identify and evaluate Substrate, transition membrane and window opening details
- Review the plans with the GC
- Contact through an RFI to point out issues, concerns or clarify work





- Spraying on Sheetrock
- Spraying on Metal
- Termites and other insects



The Truck







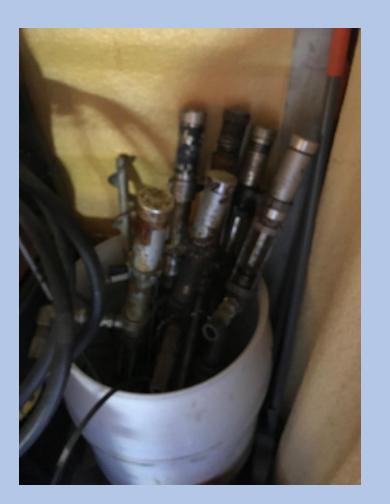


















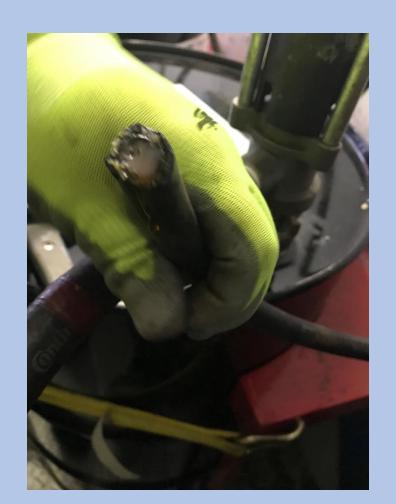


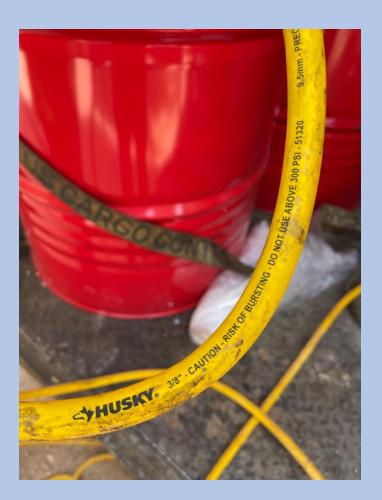












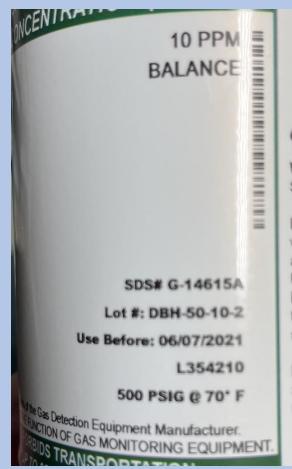


Rig stuff, Do









COMPRESSEDG

WARNING: CON SURE: MAY EXPL

Do not breathe gawell ventilated spannient temperatuse back flow present and follow the fore use. Use equature. Close valve

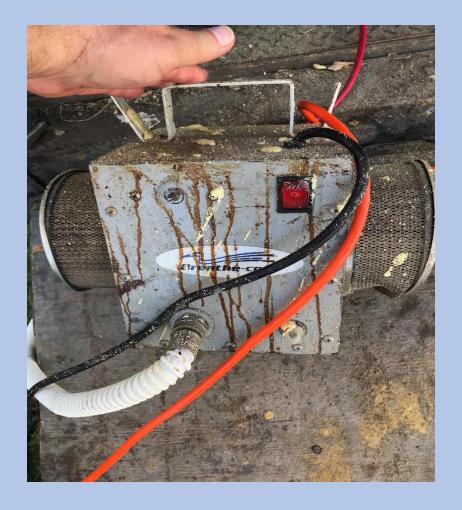
FIRST AID: IF INair and keep com unwell get medica



Rid Stuff Don't

















Rig stuff, Here's your sign





















Home made, Just like Grandma used to make















What goes on in your mask





















Rig stuff, Eyewash





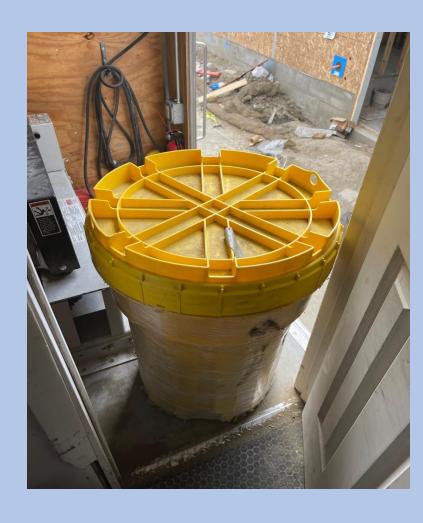






Rig stuff, Spills





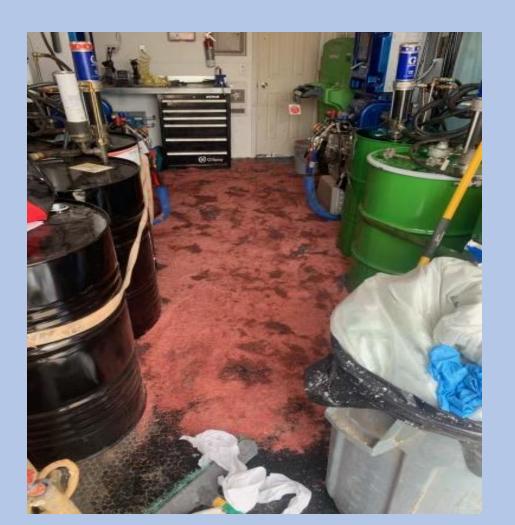


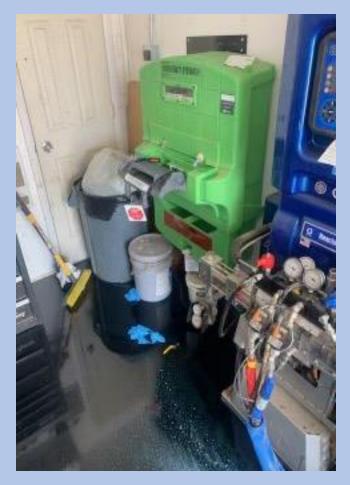


Rig stuff, Spills











Rig stuff, Spills











Rig stuff, Heat

















Rig stuff, Extra, Extra!!







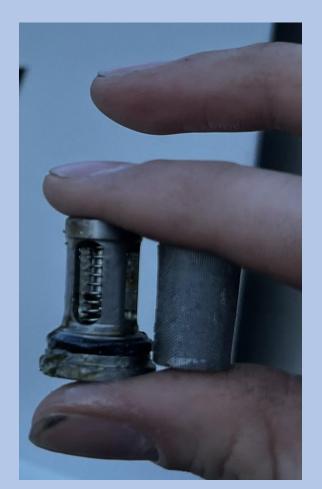
















Rig stuff, outside the box















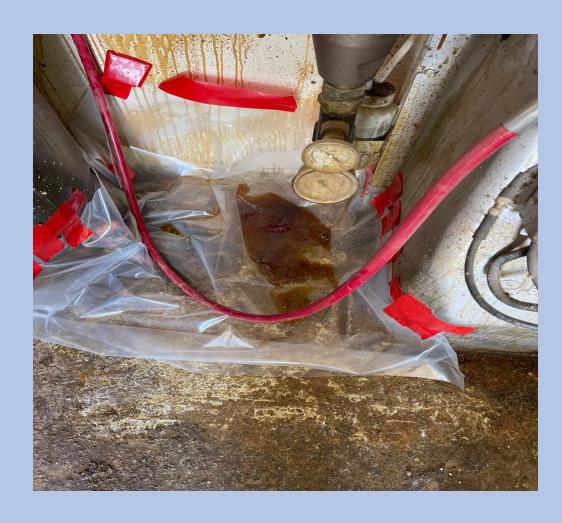


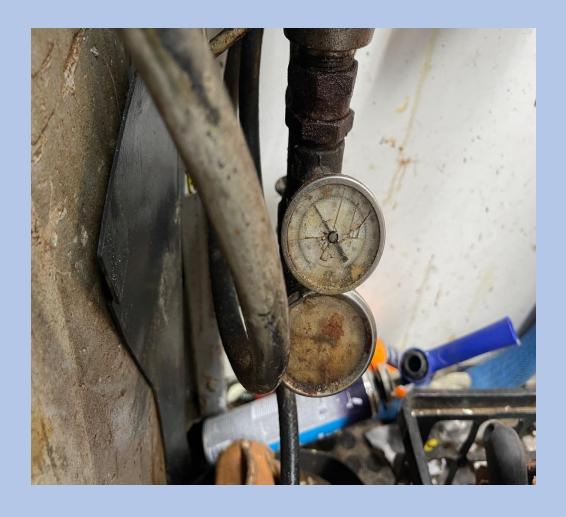






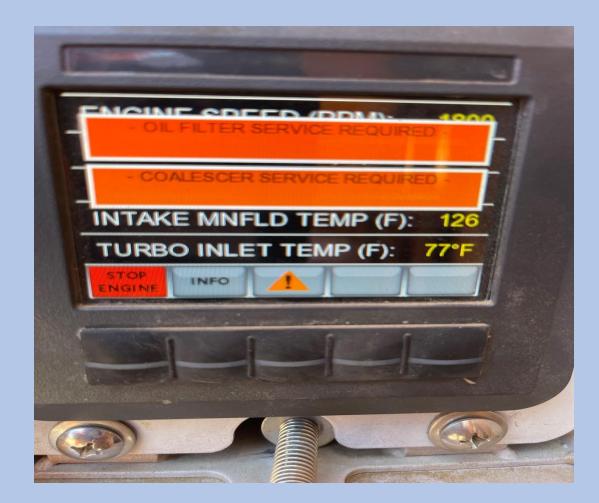








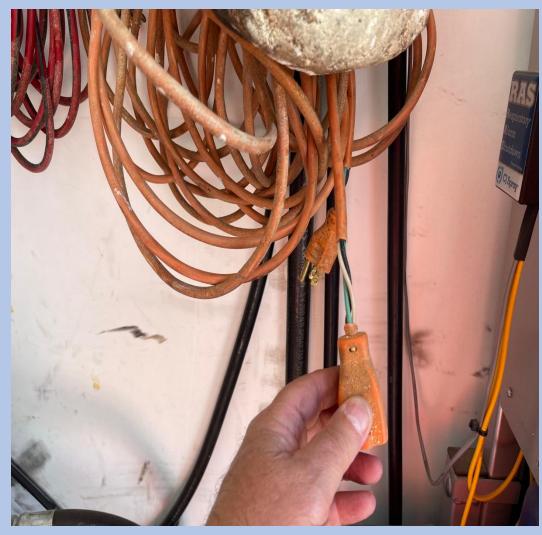


















- Ensure vehicles are properly marked per your state. (DOT, etc.)
- Fire Extinguisher, First Aid Kit and Warning triangles are a must have
- No Cell phones while driving
- Medical cards and valid license



Jobsite







The Jobsite



PreCon Meeting







Jobsite









Jobsite... a picture is worth a thousand wor... Dollars!







Jobsite ASSOCIATION OF AMERICA The most important paperwork



Crew & Rig Project Name					Date					1
Project Address					Customer Phone #					
Project Type (Circle one) New Remodel					Area in sq. feet					
Employees (Id		fficer with a *)	COLUMN TO SERVE		BENEVE BY	Assign	ment	0.00/16/29/19/20		
	Name									
					The second second	and the second second	2007-0-0587/2	10000000		
Safety, Substra	te & Setup		MARRIED TO	HEREN	BORN (CHS)	STATE OF STREET	distribution.			
Type of substrate Substrate Conditio	n	Clean? Y/N	Dry?	Y/N		Properly fastened?	Y/N			
Spray zone signs u unprotected access	p, secured from									
masked off Vents Blocked?	Y/N		P	rotective	quired? Y					
Spray zone vented Ventilation stayed	l to outside? Y /	cified time to occur	pancy? Y	/ N	# of Ho	ours to ventilate	INVADED I	and the second		
Material Info	mation Manufactur	er Foam Typ	e Be	gin	End	Lot#	NOTE OF SERVICE	Actual	Area sprayed	
	Manufactur	(Circle)	Ti	me	Time	Loca				
A-Side #1 A-Side #2										
B-Side #1		OC CC								
B-Side #2			CONTRACTOR OF THE PARTY OF THE	SAN TOTAL SAN	DWSESS.	GRAND STATES	litera)	HARDE OFFI	The second second	
	Processing Inf	ormation	Stroke Co			Estimated		Actual		
Proportioner Type Hose Lengths ½"			Gun Type Mixing Chambe		Section Control of the Control of th					
Time	Ambient Ter	np Hose			essure	A Temp	B Pressure		B Temp	
am	& % Rel. Hu	nid.								
	tenance or appli									
Daily log co	mpleted by:									
Form: Daily V	Vork Record Insulation	on (Rev 2012.1.26) do	cx							BEET ST
										0.00
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	-		_							



Jobsite, pre work







































































Jobsite...Prep Own it!





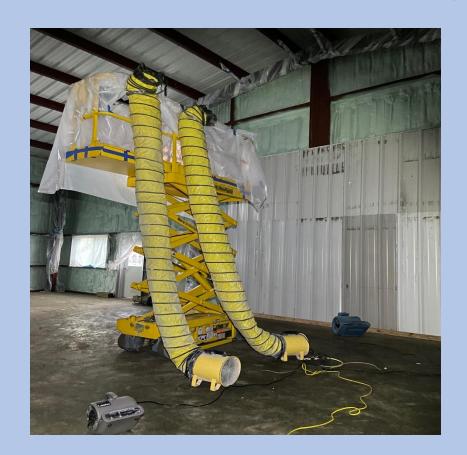


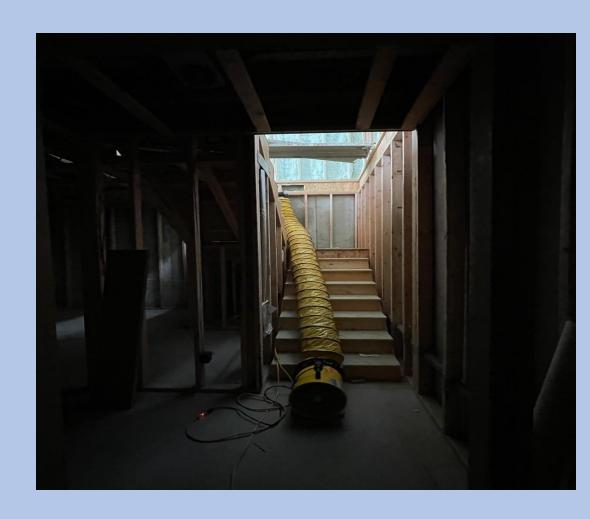


Jobsite Ventilation



• Establish a ventilation plan







Jobsite Ventilation









Jobsite Good rule of thumb.., If you don't want to buy it, Cover it in plastic!









Jobsite Ventilation



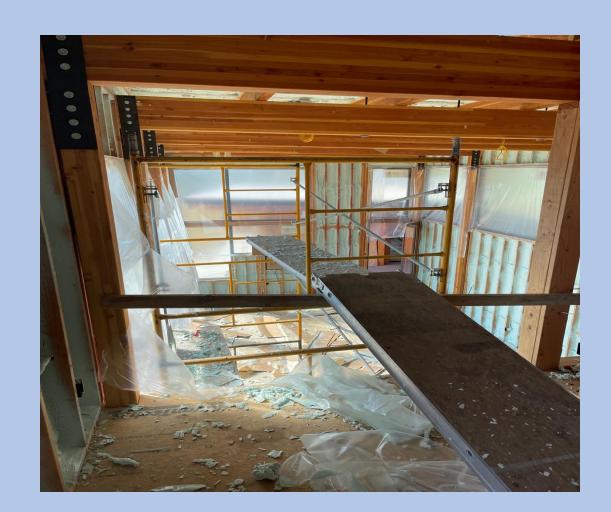






Jobsite Grey matter Matters!









Jobsite









Jobsite









Jobsite Have a plan

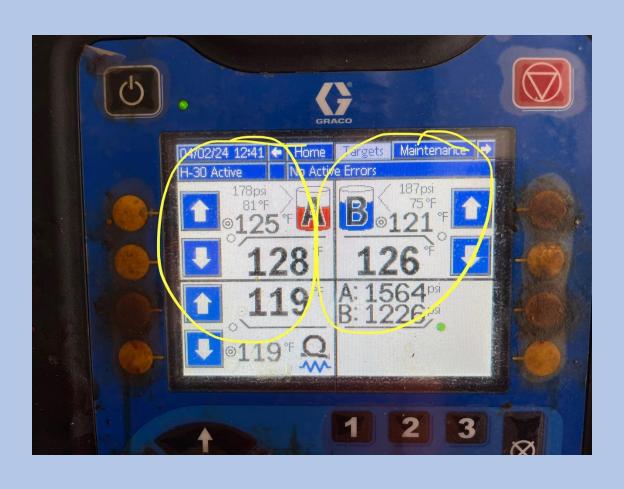






Jobsite Understand the basic's







Jobsite

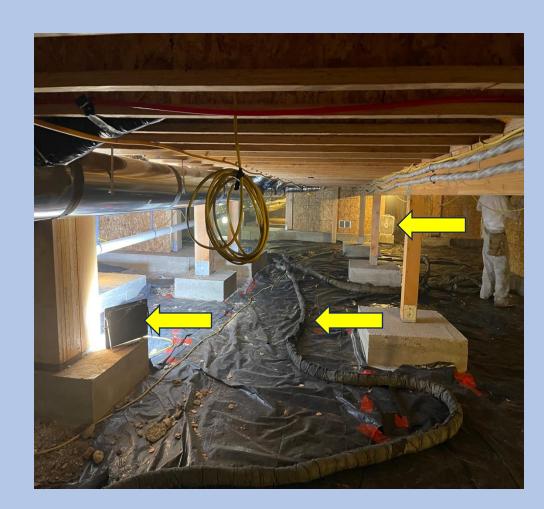






Jobsite









Jobsite Understanding the basic's

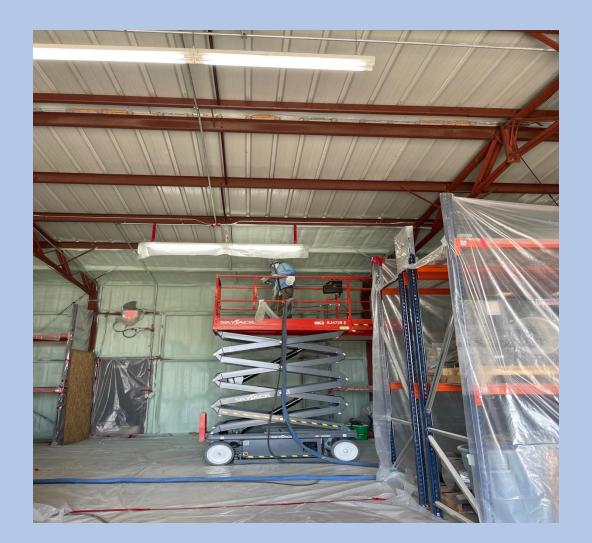






Jobsite Doing it correct







Jobsite Doing it right

































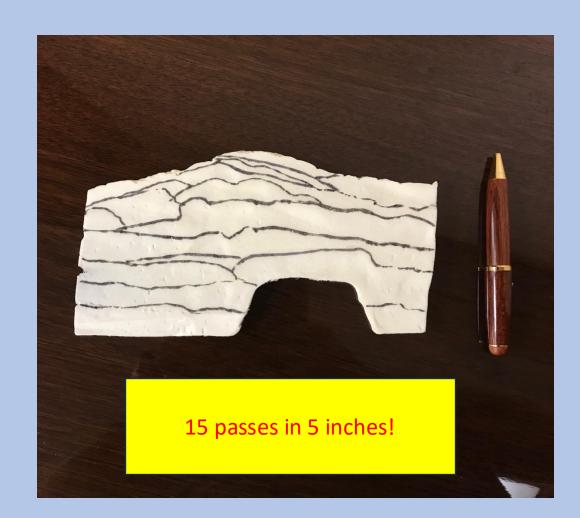
































































- Keep Daily Job records
- Record pull and adhesion tests
- Use quality tools such as a Com-Ten Tool
- Record Substrate and environment temperatures/Humidity and Moisture







- Calculate and compare your yield
- Check your density
- Only give homeowners and builders the finished product SDS















Your worst day







Manage Pass Thickness









Manage your changeover









Foam gets hot







Another version of a bucket of cash







Foam is cool.







Questions?





Stressed spelled backwards is DESSERTS