



APPLICATION GUIDE

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Setup & operating limits

1:1

ISO : RESIN RATIO

By volume; IPS ISO only

900-1,300

SPRAY PRESSURE IN PSI

6 in.

MAXIMUM LIFT PER PASS

1/2 in. minimum

PROCESSING PARAMETERS

Spray pressure	900-1,300 psi
Proportioner setting	1,150-1,500 psi
Cold: hose + A/B heat	140-150°F
Warm: hose + A/B heat	110-125°F
Mixing chamber	02
Resin before spraying	85-95°F

SITE & MATERIAL CONDITIONS

Ambient during spray	45-120°F
Wood substrate minimum	45°F; cold methods
Metal/concrete minimum	55°F; flash pass
Porous substrate moisture	Below 19%
Storage temperature	50-85°F
Resin agitation	Continuous

BEFORE YOU SPRAY

1 Condition the resin

Bring resin to **85-95°F**. Below 85°F, recirculate or blanket-heat to that range. At 85°F or above, added heating or recirculation is unnecessary.

2 Mix before spraying

Mix for at least **10-15 minutes** using a **minimum 500 RPM** agitator with three collapsible blade sets. Follow the blade arrangement on page 3.

3 Keep the resin moving

Maintain **medium-speed mixing throughout application**. Stops over 30 minutes and separated hose material require the restart procedures on page 3.

4 Pair and set the equipment

Use **IPS A-Side (ISO) only**; do not blend with other products. Flush before switching materials. Use the listed pressures and heat ranges; adjust heat in **3°F increments**.

Use limits: For residential and common commercial interior insulation. Not for exterior roofing. Cold-storage use requires a structure designed for that purpose by a design professional.

Continuous resin mixing is required. Read page 3 before use. The TDS does not specify an upper substrate temperature limit.



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Surface preparation & application

PREPARE THE SUBSTRATE

All surfaces must be clean, dry and free of grease, oil, dirt and surface moisture. Verify compatibility and adhesion.

WOOD AND POROUS MATERIALS

Verify moisture **below 19%**. Remove dust, oil and debris. Fill gaps with suitable backer rods or fillers.

STEEL AND OTHER METALS

Field-test suitability and adhesion. Blasting or priming may be needed for the substrate condition. Allow required primer to cure fully.

CONCRETE

Use clean concrete cured for **at least 28 days**. Remove dust and oil; fill voids and cracks before application.

PREVIOUSLY APPLIED FOAM

Remove old or incompatible foam or coatings. Always test adhesion before full application.

APPLY & CHECK THE FOAM

1

Prepare and test

Fully cure required primer. Spray a mock-up to test pattern, adhesion and material compatibility. Follow IPS cold-weather techniques for wood down to **45°F**.

2

Control pass thickness

Use a flash pass on metal or concrete down to **55°F**. Apply **1/2-6 inches per pass**. Never spray into or under rising foam.

3

Cool between passes

Allow **5 minutes of cooling per maximum 6-inch pass**. Add another pass only after the installed material has cooled.

4

Inspect and correct

Inspect appearance and adhesion. Stop for unacceptable foam. Remove and replace improperly installed or off-ratio foam; follow TDS removal procedures and contact IPS.

SAFETY & FIRE PROTECTION

Protect workers: Provide local exhaust; ventilate during and after spraying. Wear protective clothing, chemical-resistant gloves and splash goggles or a face shield. Follow current resin and ISO SDSs for respiratory protection and exposure response.

Control reaction heat: Foam is combustible. Do not use above 180°F service temperature; keep welding and cutting torches away. Excess pass thickness, off-ratio material or spraying into rising foam can cause fire and persistent odors.

Install required barriers: Use code-required thermal and ignition protection; thermal barriers require at least a 15-minute finish rating. Confirm any Appendix X exception with IPS; listing status is unresolved in the supplied TDS.

STORAGE & RETURN TO SERVICE

Storage: Store original, unopened containers at **50-85°F**, sealed in a covered, secure location out of sunlight. Shelf life is **approximately 6 months** from manufacture. Higher storage temperatures shorten shelf life and may raise package pressure.

Ventilation governs return times. See **page 3** for worker re-entry and residential reoccupancy requirements. Follow the current component SDSs and IPS site-clearance guidance.

Equipment: Clean regularly and follow manufacturer operation, maintenance and storage instructions. Capture solvents and waste for proper disposal.

Confirm with IPS: Confirm the upper substrate temperature, current component SDSs, and approved attic/crawl-space assemblies with IPS. The TDS does not establish the claimed barrier exception or its thickness limits.



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Resin mixing, restarts & ventilation

RESIN PREPARATION AND RESTARTS

1 Set up the agitator

Use an agitator with **three sets of collapsible blades**, running at a **minimum 500 RPM** for initial mixing. Place the bottom set **1-2 inches above the drum bottom**; place the middle set **10 inches above the bottom set** and the top set **10 inches above the middle set**.

2 Mix and condition

Mix the resin for at least **10-15 minutes** before spraying. Bring resin to **85-95°F**. If below 85°F, recirculate or blanket-heat to that range. At 85°F or above, extra recirculation or blanket heating is not necessary. Maintain **medium-speed mixing throughout application**.

3 Restart after a mixing stop

If mixing stops for **more than 30 minutes**, repeat the initial mixing and temperature-conditioning steps. **Spray off-target for 30 seconds** before installing foam. Do not resume installation until the material is suitable.

4 Restore separated hose material

Material may separate in a hose left unattended without pressure and temperature. **Bleed material back into the drum until the line contains homogeneous resin**. Repeat mixing and temperature steps, then spray off-target until material is suitable for installation.

VENTILATION AND RETURN TO SERVICE

Worker re-entry at 20 ACH	2 hours
Worker re-entry with minimal ventilation	4 hours
Reoccupancy	24 hours
Residential reoccupancy	24 hours after application ends
Required residential mechanical ventilation	At least 0.3 ACH for that 24-hour period

ACH means air changes per hour. Ventilate the application space during and after application. Use the product-specific times and ventilation conditions together; follow current resin and ISO SDSs and IPS guidance before clearing the area.

The TDS lists a NIOSH-certified or equivalent organic-vapor/particulate respirator as needed. Determine the appropriate respiratory protection from both component SDSs and the site conditions; this guide does not establish exposure clearance.