



APPLICATION GUIDE

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Setup & operating limits

1:1

ISO : RESIN RATIO

By volume

900-1,200

SPRAY PRESSURE IN PSI

8 in.

MAXIMUM LIFT PER PASS

1/2 in. minimum

PROCESSING PARAMETERS

Spray pressure	900-1,200 psi
Proportioner setting	1,150-1,450 psi
Cold: hose + A/B heat	125-135°F
Warm: hose + A/B heat	105-125°F
Gun mixing chamber	02
Required A-side	IPS ISO only

SITE & MATERIAL CONDITIONS

Ambient during spray	20-120°F
Wood substrate minimum	20°F
Metal/concrete minimum	30°F; flash pass
Porous substrate moisture	<19%
Drums before use	Approx. 70-80°F
Storage temperature	50-80°F

BEFORE YOU SPRAY

1

Condition drums

At **70°F or above**, added heat and recirculation are not required. Below 70°F, use drum heat or recirculation to reach at least 70°F.

2

Check substrate conditions

Use a **flash pass on metal or concrete down to 30°F**. For wood below 20°F or an upper substrate limit, contact IPS for guidance.

3

Pair and prepare equipment

Use **IPS A-Side (ISO) only**. Do not blend 504EZ with other products. Set the proportioner to **1,150-1,450 psi**. Flush before switching materials.

4

Set heat for conditions

For hose and both preheaters, use **125-135°F in cold conditions** or **105-125°F in warmer conditions**. Adjust in **3°F increments**.

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

Confirm before use: the TDS leaves the upper substrate temperature limit unspecified.



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Surface preparation & application

PREPARE THE SUBSTRATE

All surfaces: clean, dry and free of grease, oil, dirt, dust and surface moisture.

WOOD & POROUS MATERIALS

Moisture must be **below 19%**. Remove debris and fill gaps with suitable backer rods or fillers.

STEEL & OTHER METALS

Field-test suitability and adhesion. Blasting or priming may be needed for the substrate condition.

CONCRETE

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

PREVIOUSLY APPLIED FOAM

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

APPLY & CHECK THE FOAM

1

Prime and test

If needed, apply primer and allow it to cure fully. Spray a mock-up or test area to check the pattern, adhesion and material compatibility.

2

Control pass thickness

Apply **1/2 inch minimum to 8 inches maximum per pass**. Do not spray into or under rising foam.

3

Cool between passes

Allow 5 minutes of cooling per maximum 8-inch pass. Apply additional passes only after the installed material has cooled.

4

Inspect and correct

Check 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

Before use: read current resin and ISO labels and SDS. Use local exhaust ventilation, coveralls, nitrile gloves, eye protection and a supplied full-face fresh-air respirator while spraying. Follow the SDS for PPE, handling, exposure response and disposal. Avoid skin and eye contact and inhaling mist or vapor.

Fire and heat: foam is combustible. Do not use above **180°F maximum service temperature**. Keep welding and cutting torches away. Excessive pass thickness, off-ratio foam or spraying into rising foam can cause dangerous heat, fire and persistent odors.

Barriers: use approved thermal/ignition protection as required by code. Thermal barriers require at least a **15-minute finish rating**; see **CCRR-0673** for assemblies and applicable exceptions.

STORAGE & RETURN TO SERVICE

Storage: keep original, unopened containers sealed in a covered, secure location out of direct sunlight at **50-80°F**. Shelf life is **approximately 6 months** from manufacture. Higher storage temperatures shorten shelf life and may raise package pressure.

Worker re-entry: 2 hours.

Reoccupancy: 24 hours.

Follow current product SDS and IPS guidance for ventilation and site clearance.

Equipment: clean regularly; follow manufacturer instructions for operation, maintenance and storage.

Emergency: CHEMTREC **1-800-424-9300**

Source checks pending: the TDS flags resin SDS/PPE verification and assembly thicknesses. Confirm current SDS and CCRR-0673 details with IPS.