



APPLICATION GUIDE

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Setup & operating limits

1:1

ISO : RESIN RATIO

By volume

125-135°F

HOSE + A/B PREHEAT

12 in.

MAXIMUM LIFT PER PASS

Allow each lift to cool

PROCESSING PARAMETERS

Dynamic fluid pressure	1,000-1,500 psi
Static pressure	1,000-1,500 psi
Hose heat	125-135°F
A and B preheat	125-135°F
Mixing chamber	AR 4242-AR 5252
Drums before use	68-86°F

SITE & MATERIAL CONDITIONS

Ambient temperature	14-120°F
Substrate temperature	14-120°F
Substrate vs. dew point	>5°F above
Ambient humidity	Below 80%
Porous substrate moisture	Below 19%
Storage temperature	64-86°F

BEFORE YOU SPRAY

1

Condition the drums

Bring drums to **68-86°F**. Cold material can thicken and cause cavitation. Recirculation may raise drum temperature; **do not overheat**.

2

Prepare the resin

500EZ is designed for **no-mix application**. Pre-use mixing still helps consistent performance because storage and environmental conditions can cause slight component separation.

3

Select the equipment

Use a proportioner rated for at least **1,000 psi dynamic pressure** and Graco Fusion AP/CS **AR 4242-AR 5252** chambers. Larger chambers may reduce yield and properties.

4

Set heat and check the site

Keep hose and both preheaters at **125-135°F**; adjust for substrate, ambient temperature and humidity. Verify dew-point margin, humidity and moisture limits before spraying.

Use limits: Open-cell insulation for wall cavities, attics, crawl spaces, foundations and roof-deck undersides in the residential, industrial and commercial applications described in the TDS.

Protect installed foam from UV exposure within 90 days. Use with current resin and IPS A-Side labels and SDSs.



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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 prime

Complete surface preparation. If primer is required, apply it and allow full cure. Flush the proportioner before switching materials.

2

Test and spray

Test the spray pattern and adhesion. Apply smooth, even passes at a **maximum of 12 inches per pass**.

3

Cool and inspect

Allow each lift to cool before applying the next. Inspect foam appearance and adhesion regularly; stop and contact IPS for unacceptable results.

4

Protect the installation

Protect foam from **UV exposure within 90 days**. Install the required approved thermal barrier and confirm any tested attic or ignition-barrier assembly with IPS.

SAFETY & FIRE PROTECTION

Protect workers: Read both component SDSs. Use exhaust ventilation, non-porous coveralls, chemical-resistant gloves, chemical goggles and a full-face supplied-air respirator where spraying occurs. Add splash-face protection where needed.

Prevent chemical exposure: Resin can cause severe skin burns and eye damage; it is harmful if swallowed or inhaled. Avoid contact and breathing mist or vapor. Follow SDS first-aid and disposal instructions.

Provide fire protection: Foam is combustible. Keep at least 3 inches from devices or surfaces above 180°F. Install code-required thermal protection; confirm permitted attic and ignition-barrier assemblies with IPS.

STORAGE & RETURN TO SERVICE

Storage: Store sealed, dry, away from humidity and sunlight at **64-86°F**. Unopened shelf life from manufacture: **resin 6 months; IPS ISO 12 months**. Use a nitrogen blanket for long-term ISO storage and a desiccant air dryer on the ISO drum in use.

Worker re-entry: 1 hour.

Reoccupancy: 2 hours.

Confirm ventilation and site-clearance conditions with IPS and current component SDSs before releasing the area.

Equipment: Clean regularly and follow equipment maintenance and storage instructions. For spills and exposure, follow the SDS.

Confirm with IPS: The TDS gives no timed cooling interval or ventilation conditions for return times. Confirm these and any assembly exception with IPS. Supplied SDS covers Part B resin only.