

APPLICATION GUIDE

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Setup & operating limits

1:1

MIX RATIO

By volume · IPS A-Side (ISO)

900-1,200 psi

SPRAY PRESSURE

Proportioner: 1,150-1,450 psi

1/2"-4"

PASS THICKNESS

Follow the cooling schedule

PROCESSING PARAMETERS

Spray pressure	900-1,200 psi
Proportioner setting	1,150-1,450 psi
Mix ratio / chamber	1:1 volume / 02
Hose + A / B: cold	115-130°F
Hose + A / B: warmer	110-125°F
Lift range	1/2"-4" per pass

SITE & MATERIAL CONDITIONS

Regular: ambient	40-120°F
Winter: ambient	20-55°F; see note
Porous substrate moisture	Below 19%
Maximum service temperature	180°F
Material during installation	70-75°F
Storage temperature	50-80°F

BEFORE YOU SPRAY

1

Confirm product and use

Pair 2004 resin exclusively with **IPS A-Side (ISO)**. Select Regular or Winter reactivity. Read both SDSs; confirm project suitability and required CCRR-0674 assembly protection.

2

Condition the material

Warm material to **at least 70°F at least 24 hours before installation**; maintain the listed installation temperature. Cold material may thicken and cause cavitation.

3

Prepare the site

Verify grade-specific ambient conditions, surface temperatures, and moisture. Provide local exhaust and ventilation during and after application. Prepare PPE and ventilation supporting the planned return times.

4

Set pressure and heat

Use a proportioner rated for at least **900 psi dynamic pressure**. Distinguish proportioner setting from spray pressure. Set hose and preheaters for conditions; adjust temperatures in **±3°F increments**.

Use limits: Closed-cell insulation for residential and light-commercial wall cavities, attics, crawl spaces, foundations, rim joists, ductwork, and roof-deck undersides. Not for exterior roofing. Cold-storage use requires a structure designed for that use by a design professional.

TDS conflict: Winter ambient 20-55°F versus generic spray range 40-120°F. Confirm Winter use below 40°F with IPS.

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Surface preparation & application

PREPARE THE SUBSTRATE

Remove oil, grease, dirt, and surface moisture. Keep porous materials below 19% moisture. Verify compatibility and adhesion through a mock-up.

WOOD

Clean and fill gaps. Wood may be sprayed down to **20°F** using flash passes or picture framing to wet studs, each with **5 minutes cooling**. Confirm grade and ambient conditions.

STEEL AND OTHER METALS

Field-test adhesion; blast or prime as needed. Heat-sink surfaces: **30°F minimum** with a flash pass. Supplemental heat and stud wetting may prevent thermal shock.

CONCRETE

Clean concrete; cure **28 days minimum**. Fill voids/cracks. Heat-sink surfaces: **30°F minimum** with a flash pass; supplemental heat may prevent thermal shock.

PREVIOUSLY APPLIED FOAM

Remove old or incompatible foam or coatings as directed by the TDS. Test adhesion before full application. Fully cure any required primer.

APPLY & CHECK THE FOAM

1

Test before full application

Flush before switching materials; verify ratio, pressures, and heat. Test a mock-up for spray pattern, appearance, adhesion, and material compatibility.

2

Control pass thickness

Use smooth, even passes within listed limits. The TDS identifies **3-4"** as optimized coverage; thinner passes may increase density and reduce yield. Never spray into or under rising foam.

3

Follow the cooling schedule

The TDS permits **two back-to-back lifts up to 3.5" each (7" total)**. **Above 3.5"**, allow **10 minutes cooling per inch between passes**. Let installed material cool before further build-up; avoid excessive reaction heat.

4

Inspect and complete

Inspect appearance and adhesion. Replace A-only, B-only, off-ratio, or excessively thick foam. Move large masses safely outdoors, cut smaller, and cool before disposal. Install approved barriers.

SAFETY & FIRE PROTECTION

Protect workers and ventilate: Provide local exhaust during and after spraying. Wear protective clothing, chemical-resistant gloves, and splash protection. Follow both SDSs for respiratory protection; the TDS specifies NIOSH-certified or equivalent organic-vapor/particulate protection as needed.

Control fire and reaction heat: Foam is combustible; keep welding and cutting torches away. Excess thickness, off-ratio application, or spraying into rising foam can cause dangerous heat, fire, and persistent odors. Observe service-temperature limits.

Install required barriers: Use approved 15-minute thermal barriers for walls/ceilings where required and ignition protection for attics/crawl spaces. Follow CCRR-0674 assemblies. Avoid skin/eye contact and inhalation.

STORAGE & RETURN TO SERVICE

Storage: Store original, unopened containers sealed, covered, secure and out of sunlight at **50-80°F**. Shelf life: **approximately 6 months from manufacture**. Excess heat shortens shelf life and increases package pressure.

Worker re-entry: **2 hours at 20 air changes/hour (ACH) or 8 hours with minimal ventilation** (ASTM D8445). Re-occupancy: **24 hours**; residential: 24 hours after application ends with at least **0.3 ACH mechanical ventilation throughout**.

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

Confirm with IPS: Confirm CCRR-0674 assembly thicknesses and barrier exceptions before installation; the supplied TDS does not provide those details.