

APPLICATION GUIDE

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Setup & operating limits

1:1

MIX RATIO

By volume · IPS A-Side (ISO)

1,000 psi

DYNAMIC PRESSURE

Minimum while processing

3.5"

MAXIMUM PASS

Allow each lift to cool

PROCESSING PARAMETERS

Dynamic fluid pressure	1,000 psi minimum
Mix ratio	1:1 by volume
Hose heat	110-130°F
A / B preheater	110-135°F
Mixing chamber	02
Maximum lift	3.5" per pass

SITE & MATERIAL CONDITIONS

Ambient during spray	40-120°F
Substrate temperature	40-120°F
Porous substrate moisture	Below 19%
Foam service temperature	Below 180°F
Material preconditioning	65-85°F
Storage temperature	50-80°F

BEFORE YOU SPRAY

1 Confirm product and grade

Pair 2001 resin only with **IPS A-Side (ISO)**. Identify the Summer, Regular, or Winter grade; obtain its application guidance. Read product labels and both component SDSs.

3 Prepare the work area

Verify site conditions and required barriers. Provide adequate ventilation during spraying, appropriate respiratory, skin, and eye protection, and access to an eyewash system and showers.

2 Condition the material

Precondition before use. Cold material can thicken and cause cavitation. Check material condition before connecting drums; conditioning, storage, and equipment heat settings serve different purposes.

4 Set up the equipment

Use a plural-component proportioner delivering the specified volume ratio and dynamic pressure. Set hose and preheater temperatures separately. Flush before switching materials and check the spray pattern.

Use limits: Closed-cell insulation for residential and commercial walls, ceilings, attics, crawl spaces, foundations, roof-deck undersides, exterior walls, and under-slab applications. Confirm suitability and assembly requirements for the project.

Use the current labels, both component SDSs, and guidance for the Summer, Regular, or Winter grade.

APPLICATION GUIDE

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Surface preparation & application

PREPARE THE SUBSTRATE

Keep surfaces clean, dry, and free of oil, grease, dirt, and moisture. Verify compatibility and adhesion under actual site conditions.

WOOD

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

STEEL AND OTHER METALS

Field-test suitability and adhesion. Blast or prime as needed for the surface condition. Allow any required primer to cure fully.

CONCRETE

Use clean concrete cured **at least 28 days**, free of dust and oil. Fill cracks and voids.

PREVIOUSLY APPLIED FOAM

Remove old or incompatible foam or coatings as directed by the TDS. Always test adhesion before full application.

APPLY & CHECK THE FOAM

1

Verify the setup

Confirm grade, IPS A-Side, ratio, heat settings, and dynamic pressure. Test the spray pattern. Complete surface preparation and let required primer cure fully.

2

Build in even passes

Spray smooth, even passes within the maximum lift limit. Adjust preheater temperatures within the listed range for substrate, ambient temperature, and humidity. Follow grade-specific guidance.

3

Cool and inspect

Allow each lift to cool before applying the next. Regularly inspect appearance and adhesion. Obtain grade-specific minimum lift and cooling guidance from IPS; no numeric interval is supplied.

4

Protect the finished foam

Protect from sunlight. Before masonry veneer, UV exposure may reach **6 months**; apply required coating over metal-panel cladding within **6 weeks**. Install approved barriers.

SAFETY & FIRE PROTECTION

Protect workers: Wear protective clothing, chemical-resistant gloves, and safety goggles or glasses. When airborne concentrations are unknown or exceed exposure limits, use maintained, NIOSH-approved supplied-air full-face positive-pressure or continuous-flow protection, or a supplied-air hood. Follow both SDSs.

Control exposure: Ventilate. Avoid skin/eye contact, ingestion, and breathing fumes, gas, mist, vapor, or spray. Dense vapors can displace breathing air in confined spaces. Follow SDS first aid.

Provide fire protection: Unprotected foam can present a serious fire hazard. Maintain the service-temperature limit and install code-required approved thermal or ignition barriers. Confirm any assembly exception with IPS.

STORAGE & RETURN TO SERVICE

Storage: Store indoors, sealed, dry, and out of direct sunlight at the listed temperature. Do not break seals. Shelf life from manufacture in original unopened containers: **resin 6 months; IPS A-Side (ISO) 24 months**.

TDS: worker re-entry 2 hours; re-occupancy 24 hours. Ventilation assumptions are not stated. Confirm ventilation and return requirements with IPS and both component SDSs before releasing the area.

Equipment: Clean regularly; follow equipment manufacturer maintenance and storage procedures. Contact IPS for application or equipment issues.

Confirm with IPS: Confirm grade-specific minimum lift and cooling interval, ventilation conditions for return times, and current listings for barrier exceptions. The TDS leaves barrier-listing status unresolved.