

USP™ ALL SEASON EXTRUDABLE SEAM BOND

Product Data Sheet

PRODUCT INFORMATION: USP™ ALL SEASON EXTRUDABLE SEAM BOND is a single component, block copolymer elastomeric mastic that is extrudable for a faster application along seam areas. The USP™ ALL SEASON EXTRUDABLE SEAM BOND flashes off forming a tough, non-breathing, heat reducing, durable elastomeric membrane. The cured membrane is UV and water resistant with excellent resistance to mildew attack and weathering and possess exceptional elongation properties, cold weather pliability, excellent chemical resistance and a highly reflective finish.

RECOMMENDED USES:

- Metal roof seams, screw heads, fasteners, vents, and other protrusions and penetrations.
- Patch and repairing blisters, cracks and seams in existing, APP, SBS, BUR, TPO, Hypalon, fiberglass, concrete and wood.
- Flashing & Detail Flashing.
- Contact U.S. Ply, Inc. for specific uses.

PRODUCT CHARACTERISTICS:

Finish: Eggshell

Color: White

Viscosity: Extrudable @ 70°F or greater

Specific Gravity: 1.08

Weight: 9 lbs. / gal.

VOC: < 410 grams/liter

Drying Schedule: At 8.0 mils wet @ 50% RH

	<u>50°F</u>	<u>70°F</u>	<u>110°F</u>
To Touch	4 hrs.	2 hr.	30 min.
To Recoat	8 hrs.	4 hrs.	2 hrs.
To Cure	72 hrs.	48 hrs.	24 hrs.

Note: Drying time is temperature, humidity, and film thickness dependent.

Shelf Life: (Unopened) – 18 months from date of shipment

Flammability: Non-Flammable



SUBSTRATE	Horizontal Metal Seams	Vertical Metal Seams	Modified Bitumen Seams
USE	Seam Treatment		
RATE	40 ln. ft. / gal @ 1/16" x 6" in three course application with USP PolyForcement	80 ln. ft. / gal @ 1/16" x 3"	30 ln. ft. / gal @ 1/8" x 4"

SHIPPING INFORMATION:

<u>Container Size</u>	<u>Gross Weight</u>	<u>Class</u>
5 Gal.	47 Lbs.	55

D.O.T. Classification: Sealant Caulk, Not Regulated

HMIS:

Health	1
Flammability	0
Reactivity	0
Protection	X

PERFORMANCE CHARACTERISTICS

Physical Properties:

PHYSICAL PROPERTY	TYPICAL VALUE	TEST METHOD
Solids Content By Weight:	58% ± 2%	(ASTM D-1644)
Solids Content By Volume:	52% ± 2%	(ASTM D-2697)
Tensile Strength:	1700 psi ± 25	(ASTM D-2370)
Elongation:	500% ± 25%	(ASTM D-2370)
Accelerated Weathering	No degradation after 1,000 hours	(ASTM G-53)
Permeability	Non-breathing	(ASTM D-1653)
Low/High Temperature	Films retained their ability to be flexed 180° without cracking at temperatures from -15°F to 185°F with no age hardening or slump	(ASTM D-822)

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY U.S. PLY, INC. EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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APPLICATION PROCEDURES

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TEMPERATURE

Air and Surface: 30°F Minimum/120°F Maximum
Material: 70°F Minimum/110°F Maximum

RELATIVE HUMIDITY

Can be applied at relative humidity up to 95%

DO NOT APPLY WHEN THE TEMPERATURE CAN FALL TO WITHIN 5°F OF THE DEW POINT WITHIN 6 HOURS.

This product should only be applied with a working material temperature of at least 70°F. A heating band is recommended at all times to maintain optimum spray ability.

This product cures by flashing solvents. It is very important that this product is not used when weather conditions are below 20°F or when there is a chance that the temperature could fall below 20°F within a 24 hour period after application.

GENERAL PREPARATION: All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash to enhance adhesion. See application specification for more details. Material is not compatible with grease and/or oil.

METAL ROOFS: Clean rusted areas of flaking, scaling rust and prime using USP™ ALL SEASON METAL PRIMER (refer to data sheet). Use USP™ ALL SEASON EXTRUDABLE SEAM BOND to desired area and then tooled into place.

AIRLESS SPRAY-VOLUME:

Output: 2.5 – 3 gal. per min.
Fluid Working Pressure: 4,500 – 7,400 psi
Spray Gun: Graco – Contractor rated for pressure
Fan/Tip: None
Extension: 12" – 36" gun extension recommended

BRUSH: No reduction necessary. Use bristle brush. Apply to surface to a 1/16" thickness on metal and 1/8" thickness on non-ferrous material. Tool immediately to ensure full contact with the interfaces of the joint. **CAULK:** Fill the joint completely and tool immediately to ensure full contact with the interfaces of the joint.

NOTE: Vertical seam (side lap) sealing does not require the use of fabric. Apply USP™ ALL SEASON EXTRUDABLE SEAM BOND to vertical seams at the rate of 80 - 85 lineal feet/gallon approximately 3" wide and 1/16" thick or 65 - 70 lineal feet/gallon approximately 4" wide and 1/16" thick. Apply USP™ ALL SEASON EXTRUDABLE SEAM BOND to horizontal seams at the rate of 40 - 45 lineal feet/gallon approximately 6" wide and 1/16" thick in two coats with USP PolyForcement embedded between the coating layers. Apply USP™ ALL SEASON EXTRUDABLE SEAM BOND to modified bitumen seams at the rate of 30 - 35 lineal feet/gallon approximately 4" wide and 1/8" thick. Tool in place and feather SEAM BOND to provide positive slope.

COVERAGE: Coverage will vary depending on surface and size of area being patched. A thickness of 1/16" to 1/8" is generally sufficient, which represents an application rate of approximately 16 sq. ft. / gal.

Curing Precautions: Material should be applied in multiple layers to achieve desired thickness. It is best to let the material cure between coats. Heavy build-ups in one application will cure very slowly. Curing times will vary with temperature and humidity. (See page 1 of this data sheet).

Mixing Procedures: No thinning or reducing is necessary. Product may separate after shipping and storage, though it may still look mixed. When mixing becomes necessary we recommend the use of a 3/4 horsepower or larger electric or air operated mixer with a blade capable of uniformly mixing the entire container. When product is in 5-gallon pails, use a 3" minimum diameter mixing blade. When product is in drums, use a 6" minimum diameter mixing blade.

Application Equipment: This product may be sprayed, brushed, or rolled. When using spray equipment, it is important that the following criteria are met: When using a spray pump, a 45:1 or greater fluid to air ratio capable of delivering 2-1/2 gallons or more per minute continuous is needed, as well as an aluminum window screen. If a fluid spray hose is used, it should be high pressure with designed working pressure to handle maximum pressure delivered by the spray pump. Inside lining or tube should be of such a material so it is unaffected by the coating and any solvents used for clean up. Additionally, the following criteria should be used for hoses: 3/8" minimum I.D. up to 75 feet; 1/2" minimum I.D. up to 200 feet; and 3/4" minimum I.D. over 200 feet. The larger I.D. sections of hose should be used from the pump out in all circumstances with additional hose size reductions as necessary.

If a gun hose whip is used, high pressure with adequate W.P.S.I. 3/8" I.D. X 6 feet with an appropriate lining or tube is recommended. When using a spray gun, we recommend the Graco Hydra Max or equivalent. High-pressure gun swivels are available and can reduce operator fatigue. Spray tips are removed to extrude material. Always use components rated for pump pressures.

Cleanup Instructions: Clean up spills and spatters immediately with mineral spirits. After cleaning, flush spray equipment with USP All Season Cleaning Solvent.

SAFETY PRECAUTIONS: Refer to the MSDS sheet before use. For Chemical emergencies, spills, leaks, exposure, or accidents CALL: CHEMTREC DAY/NIGHT 1-800-424-9300.



Corporate Headquarters

P.O. Box 11740, Fort Worth, Texas 76110
TOLL-FREE: 866-PUSH-PLY (866) 787-4759
Local: (817) 413-0103 • Fax: (817) 413-8221
Website: www.usply.com • Email: sales@usply.com

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