

PLYLINK™ HP SEALANT

Product Data Sheet

PRODUCT INFORMATION: PLYLINK™ HP SEALANT is a solvent free, odorless, high performance adhesion sealant for almost all construction materials including adhesion to difficult surfaces such as anodized metal, and coatings such as Kynar 500® PVDF. This highly elastic, moisture cure sealant sets rapidly to form a soft rubber seal. PLYLINK™ is ideal for use in metal architecture: sealing metal roofs, walls and flashings and galvanized steel. It is also suitable for curtain wall construction, EFIS, expansion joints, swimming pools, recreational vehicles, trucks and truck trailers. PLYLINK™ HP SEALANT will not stain limestone, marble, or other absorbent stone substrates. Contains zero VOC's.

RECOMMENDED USES & BENEFITS:

- PLYLINK™ HP SEALANT is designed as a high performance caulk sealant for counterflashings; gravel guards joints, gutter joints and other roof top metal flashings where sealants are required.
- PLYLINK™ HP SEALANT is designed for use in metal architecture: sealing metal roofs, walls and flashings and galvanized steel.
- PLYLINK™ HP SEALANT will bond to Kynar and does not require a primer, however test for adhesion is recommended.
- PLYLINK™ HP SEALANT is suitable for curtain wall construction, EFIS, brick and masonry, expansion joints, swimming pools, recreational vehicles, trucks and truck trailers.
- PLYLINK™ HP Sealant is solvent free and odorless. Contains Zero VOC's. Compliant with all known environmental and OSHA requirements. It contains no volatile or toxic materials and can be used in confined spaces without respiratory protection.
- PLYLINK™ HP SEALANT will not shrink and is paintable.
- Contact U.S. Ply, Inc. for specific uses.

APPLICABLE PERFORMANCE STANDARDS:

- ASTM C-920, Type S, Grade S, Class 50, Uses NT, T, M, G, A, and O
- Federal Specification TT-S-00230-C Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- Canadian Standards Board CAN 19, 13-M82
- SWR Institute Validated (Sealant Waterproofing and Restoration)

PRODUCT CHARACTERISTICS:

- Solvent free, 100% solids will not shrink
- Non-slump, applies vertically and overhead
- 30 minute skin over, no dirt pick up
- No out gassing on damp surfaces
- Color stability, will not suntan
- Paintable within 24 hours
- +/- 50 joint movement

Color: Available in 5 colors: Medium Bronze, Dark Bronze, Stone, Gray, Tan and White.
Color matching is available in full batch only.

Shelf Life: (Unopened) – Cartridges: 1 year
Sausages: 1 year
Pails: 3 months

Flammability: Non-Flammable

GREEN STANDARDS:

- LEED 2.2 for New Construction and Major Renovations: Low Emitting Materials (Section 4.1) 1 Point
- NAHB Model Green Home Building Guidelines: 5 Global Impact Points.
- VOC Content at 240° F: less than 19 grams/liter
- (including water), ASTM D2369, EPA Method 24

PACKAGING INFORMATION:

Container Size

10.1 oz (300 ml) cartridges; 24 cartridges / carton
20 oz (825 ml) sausages; 12 sausage / carton (special order)
5 Gallon pails (special order only)

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

HMIS:	Health	1
	Flammability	0
	Reactivity	0
	Protection	X

JOINT WIDTH Inches (mm)	JOINT DEPTH Inches (mm)
1/4 - 1/2 (6-13)	1/4 (6)
1/2 - 3/4 (13-19)	1/4 - 3/8 (6-10)
3/4 - 1 (19-25)	3/8 - 1/2 (10-13)
1 - 2 (25-50)	1/2 (13)
TYPICAL UNCURED PROPERTIES	
Gun Grade	Zero Slump ASTM C 697
Viscosity	750,000+ cps Brookfield RVF, TF spindle, 4 RPM, 73° F
Tack Free Time	35 minutes - ASTM C-679
Odor	Mild Mint Smell

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

PLYLINK HP SEALANT

TEMPERATURE

Air and Surface: 40°F Minimum/120°F Maximum

Material: 50°F Minimum/110°F Maximum

APPLICATION: Remove all dirt, oil, loose paint, frost and other contamination from all working surfaces with alcohol. DO NOT USE petroleum solvents such as mineral spirits or xylene. Maintain PLYLINK at room temperature before applying to ensure easy gunning and leveling. Test and evaluate to ensure adequate adhesion. Carefully gun the sealant with a smooth, continuous bead. If tooling is needed, do so within fifteen minutes of application.

JOINT PREPARATION: Joint surfaces should be clean, dry and free from all contamination including: dirt, oils, grease, tar, wax, rust and any other substance that may inhibit the sealant's performance.

JOINT APPLICATION: Install all joint applications per ASTM and SWRI recommendations and guidelines. Joints shall be designed with a depth to width ratio of 1:2 (joint depth one-half the width). Control the depth of the sealant by using a polyethylene backer rod that is 25% larger than the joint opening at standard temperature. To prevent three-point adhesion use a backer rod or bond breaker tape to ensure proper joint movement and a long lasting weatherproof seal. Where the joint configuration will not permit a backer rod, U.S. Ply recommends that an alternative bond breaker be used.

APPLICATION GUIDELINES

METAL: Prepare all metal to ensure maximum adhesion. Remove all rust, scale and residue by wire brushing to a bright metal sheen. Remove films, loose or inappropriate coatings and oils with an appropriate solvent such as alcohol. Note: U.S. Ply recommends that coated substrates be tested for adhesion prior to starting a project. Please contact Technical Services for specific application guidelines and recommendations.

CONCRETE: Prior to application remove any residual contamination by mechanical abrasion, sand blasting or power washing. On green concrete, remove all release agents, friable and loose concrete. Dry all visible and standing water prior to applying PLYLINK. Install an appropriate backer rod to avoid three-point bonding.

WOOD: Wood should be clean, sound and dry prior to sealant application. Allow treated wood to weather for six months prior to application. Remove all coatings and paint (or test for compatibility) to ensure proper bonding. Do not use on fire retardant lumber.

PRIMING: In most instances PLYLINK will not require a primer. However, certain applications or substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine the need for a primer. U.S. Ply recommends a primer be used for any application where prolonged immersion is anticipated.

TYPICAL CURED PROPERTIES		
Elongation at Break	550 - 600%	ASTM D 412
Hardness Shore A	20 +/- 3	ASTM C 661
Shear Strength	150 PSI	ASTM D 1002
Low Temperature Flex	Minus 10° F pass ¼ inch mandrel	ASTM D 816
Shrinkage	No measurable shrinkage after 14 days	
Service Temperature	Minus 40° F to 200°F continuous service	

COMPATIBLE SUBSTRATES*
Kynar 500® PVDF Coated Metal
Galvanized Metal, Aluminum
Engineered Plastics, PVC, EPDM and SBS Mod Bit
Glass
Fiberglass FRP
EPS Foam
Block and Brick, Concrete and Stone

*Test and evaluate to ensure adequate adhesion.

Please consult U.S. Ply, Inc.'s Technical Department for any specific questions regarding the application of this product.

CLEAN-UP: Wet sealant can be removed using a solvent such as alcohol. Cured PLYLINK can be removed by abrading or scraping the substrate.

SAFETY PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Avoid prolonged contact with skin. Uncured adhesive irritates eyes. In case of contact with eyes, immediately flush with water. Call a physician. 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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