POLYFLASH® HPS
HIGH PERFORMANCE SEALANT & ADHESIVE

PRODUCT DESCRIPTION

Polyflash HPS is a revolutionary high-strength, one-component, hybrid polymer sealant/adhesive, designed to withstand severe environmental conditions encountered in roofing, waterproofing and other industrial applications. The technology in Polyflash HPS results in a product which withstands ponding water quickly and permanently adheres to most materials found in roofing and waterproofing.

USES

Polyflash HPS is designed to be used at various construction joints such as but not limited to: counter-flashings, expansion and control joints, door thresholds and window sills, precast concrete joints, masonry, and metal flashings.
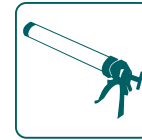
It exhibits tenacious adhesion to a wide variety of substrates including roof tile, asphalt shingles, modified bitumen, EPDM, PVC, urethanes, acrylics, aluminum, Kynar coated metals, vinyl, steel, glass, marble, brick, concrete, wood and many plastics.

FEATURES AND BENEFITS

- Solvent and isocyanate free, 100% solids
- Cold weather application
- Can be applied to damp surfaces
- 35% joint movement capability
- Non-flammable
- Non-yellowing
- Very fast skin-over time
- Low dirt pick-up
- Reaches optimum strength as quickly as 7 days (full cure 21 days)
- Multiple colors available
- Permanently elastic in a broad temperature range (-40° – 200°F)
- Superior UV resistance and weathering
- Paintable
- Low odor
- Mildew Resistant
- Extremely low shrinkage
- Ultra Low VOC's

APPLICABLE STANDARDS

- May contribute to LEED v4 EQ Material Resource Credit 4.1 - Adhesives and Sealants
- ASTM C920 Type S, Grade NS, Class 35 Uses NT, T, G, A, and O.
- Federal Specification TT-S-00230-C Type II, Class B Cold weather application
- Corps of Engineers CRD-C-541, Type II, Class B
- Conforms to OTC Rule for Sealants and Caulks
- Meets requirements of California Regs: CARB, BAAQMD and SCAQMD
- Conforms to USDA Requirements for Non-food Contact

PACKAGING

- 10.1 oz cartridges
- 20 oz sausages

COLORS

White, Black, and Grey

TYPICAL PHYSICAL PROPERTIES

TEST PROPERTY	TEST VALUE	TEST PROCEDURE
Chemistry	Hybrid Polymer	
Viscosity (cps @ 10 rpm)	601,000	ASTM D2196-10
Density (lbs/gal)	13.02	
Hardness (Shore A)	55	
Skinover time @ 50%RH/70°F	15 min	ASTM C679
VOC's (g/L)	28	EPA Test Method 24
Elongation at Break (%)	400	ASTM D412
Tensile Strength (psi)	287	ASTM D412
Shear Strength (psi)	208	ASTM D1002
Movement (%)	±35	ASTM C920
Shrinkage (%)	0	
Peel Strength (lbf/in)	Aluminum – 23 Kynar PVDF Coated Metal – 28 Mortar – 24 Glass – 25 Pine – 22 PVC – 23 Cold Rolled Steel – 24 Cementitious Siding – 22	ASTM D903

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APPLICATION INSTRUCTIONS

Surface Preparation:

Prepare all surfaces prior to material installation. All surfaces must be structurally sound and free of foreign materials including but not limited to dirt, tar, oil, grease, loose paint, wax and other contamination from adjacent working surfaces. Maintain Polyflash HPS at room temperature before applying to ensure easy gunning and tooling. Carefully gun the sealant with a smooth, continuous bead. If tooling is needed, do so within fifteen minutes of application. As you move from surface to surface, test and evaluate to ensure adequate adhesion.

Concrete:

Prior to application remove any possible residual contamination by mechanical abrasion, sand blasting and/or power washing. If installing onto green concrete, remove all release agents and loose concrete. Dry all visible and/or standing water. Install an appropriate backer rod to avoid three-point bonding.

Metal:

Remove all rust, scale and residue using a wire brush. Remove loose or incompatible coatings and oils with a mild solvent such as alcohol.

In the case of previously coated substrates, Polyglass recommends that and adhesion test be performed prior to starting a project, to determine suitability for use.

Wood:

Wood surfaces must be clean, sound and dry prior to sealant application. Treated wood should be allowed to weather for six months prior to application. Polyflash HPS is not recommended for use on fire retardant lumber.

Priming:

In most applications Polyflash HPS will not require a primer. However, certain substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine whether or not a primer is needed in their specific application.

Storage and Cleaning:

- Store in original, unopened containers, at temperatures between 60°F – 80°F.
- Recommended shelf life is 12 months from date of manufacture on bottom of tube.
- Keep tube tightly sealed. Dispose of contents/container in accordance with Local/Regional/National/International Regulations. Refer to Safety Data Sheet (SDS) for further information.
- Clean tools and any uncured material with a mild solvent such as mineral spirits.

For Professional Use Only - Keep out of the reach of children.

MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Phoenix, AZ
- Waco, TX
- Winter Haven, FL

CORPORATE HEADQUARTERS

Polyglass U.S.A., Inc.
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Customer Service:	(800) 222-9782
Technical Service:	(866) 794-9659

Questions? technical@polyglass.com

Product Disclaimer: Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects that result in the material not complying with product specifications for a period of 12 months.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances. The product user, and not Polyglass, is responsible for determining the suitability and compatibility of our products for the user's intended use.

For the most current product data and warranty information, visit www.polyglass.us

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