

POLYFLASH® 1C

ONE PART FLASHING COMPOUND

PRODUCT DESCRIPTION

Polyflash 1C is a one-component, moisture-cure silane modified polyurethane, white flashing compound designed for sealing various roofing and waterproofing details such as walls, curbs, vents, roof drains, pitch pans and unusually shaped penetrations. When combined with PolyBrite Reinforcing Polyester, this product can easily solve typical and challenging flashing needs.

USES

Polyflash 1C is primarily designed as a liquid flashing material for use with various roof membrane systems such as but not limited to: asphaltic membranes, polymer modified (APP, SBS) membranes, conventional BUR and other roofing systems. Polyflash 1C can be used to seal surfaces, penetrations, as well as some wall conditions.

When installed on a properly prepared substrate, Polyflash 1C adheres well to most surfaces such as masonry, most metals, wood, gypsum and some glazing conditions. Polyflash 1C may be used as an approved liquid flashing product for most Polyglass roofing membrane products.

FEATURES AND BENEFITS

- Monolithic application provides a watertight seal
- High tensile strength
- UV resistant
- Crack bridging capabilities
- Extensive application ambient temperature range 0°C to 50°C (32°F to 122°F)
- Minimal odor
- User-friendly application
- May be surfaced with other elastomeric coatings upon full cure
- During application, apply roofing granules to match existing roof surfacing

TYPICAL PHYSICAL PROPERTIES

TEST PROPERTY	TEST VALUE	TEST PROCEDURE
Tensile, psi	225 ± 25	ASTM D2370
Elongation, %	125 ± 25	ASTM D2370
Tear resistance, lb/in	76	ASTM D624
Permeance (perms)	0.81	ASTM D1653
Solids Volume, %	84	ASTM D2697
Solids Weight, %	95	ASTM D1644
Impact resistance, Shore A	69	ASTM D2240
Low Temperature Flexibility (-26 °C)	pass	ASTM D522 B
Rainproof after, hours	2	-
Water Absorption, % mass	1.0	ASTM D471
Crack Bridging	pass	ASTM C1305
VOC g/L	< 120	Calculated
Fully cured, days	3	-
Density, lb/gal	14	ASTM D1475
Viscosity (cps)	50,000 – 80,000	ASTM D2196



APPLICABLE STANDARDS

- Miami-Dade County Product Control Approved



PACKAGING

- 3.78 Liters (1 Gallon) Pail
- 9.46 Liters (2.5 Gallon) Pail

COLORS

White



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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, paint, wax, rust, loose materials, curing concrete, or other parting agents. All surfaces to be prepared by removing existing coatings, latent materials, as well as miscellaneous contaminations that could adversely affect the adhesion or performance of the Polyflash 1C.
- Use of a solvent wipe is recommended to prepare surface. Ensure all solvent has been removed or evaporated prior to product application. Follow the solvent wipe safety instructions.
- Wire brush or abrade rusted or treated surfaces such as Kynar® to increase mechanical bonding to the surface.
- When existing coatings cannot be removed, or if surface is questionable, perform a field test on a small section to determine proper adhesion. When in doubt, contact your Polyglass Technical Services Representative.
- It is not recommended to apply Polyflash 1C when the substrates are over 88°C (190°F), under 0°C (32°F).

Emergency / Temporary Application:

- Polyflash 1C has the unique ability to be applied as an immediate but temporary emergency leak repair over wet or damp surfaces.

Permanent Application:

- Polyflash 1C is designed as a brush grade material. Apply by bristle paint brush, working the initial layer into the surface.
- Apply first application of Polyflash 1C at a recommended minimum thickness of 0.8 mm (30–45 wet mils) onto the vertical and horizontal surface. Extend this first layer a maximum of 0.625 cm (¼") past the point where the PolyBrite Polyester reinforcing fabric will be placed.
- Immediately apply PolyBrite Polyester by centering, embedding, and fully wetting the fabric.
- Extend PolyBrite Polyester a minimum of 8 cm (3") on the vertical surface, and 8 cm (3") on the horizontal surface. Ensure that the polyester does not have any wrinkles, folds, or other defects, and presents a smooth surface appearance. Do not attempt to embed polyester into skinned-over Polyflash 1C.
- Back-brush the Polyester into the base layer of Polyflash 1C.
- Apply a second application of Polyflash 1C at a minimum thickness of 0.8 mm (30–45 wet mils). Applications suspected to experience repeated cyclic movement or more complicated conditions may require a second layer of PolyBrite Polyester and additional applications of Polyflash 1C may be recommended.

- Smooth final finish with paint brush. If a granule surface is desired, broadcast clean granules or other aggregate material into uncured Polyflash 1C material.
- Upon full cure, other surfacing or exterior finish may be applied to the Polyflash 1C.
- If applying over porous surfaces, contact Polyglass Technical Services (866) 794-9659.

Limitations:

- Thinning or dilution is not recommended.
- Always apply materials in strict compliance of all manufacturer's published requirements. Most current requirements are available at www.polyglass.ca or by contacting Polyglass Technical Services Department.
- All coverage rates given are approximations, and do not account for waste, spillage, and/or irregular surfaces. Polyflash 1C application rates can vary depending on Polyflash 1C temperature, surface temperature, and ambient temperature. Coverage rates may also vary per project requirements or other specifications. The Contractor is ultimately responsible to determine all specifics for product use or conditions that affect application.
- Tack times and cure times may vary depending on atmospheric, substrate and project conditions.
- Depending on substrate Polyflash 1C is applied to, there may be slight discoloration of substrate materials as finished product ages. This discoloration should have no adverse effects on the product's performance.
- Application to copper substrates should be reviewed with Polyglass Technical Services.

Storage and Cleaning:

- Store in original, unopened containers, at temperatures between 21°C to 32°C (70°F to 90°F) until ready for use.
- When using in lower ambient temperatures, it is recommended to store at minimum 15.6°C (60°F) for 24 hours prior to use.
- For optimum results, rotate stock to ensure stored material has not exceeded the shelf life of one (1) year.
- After use, store unused Polyflash 1C material in its original container, with packing film coming into contact with remaining product and covering the remaining product.
- Seal lid completely with lid gasket in place.

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

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MANUFACTURING FACILITIES

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

CORPORATE HEADQUARTERS

Polyglass U.S.A., Inc.

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www.polyglass.us

General Line: (888) 410-1375

(954) 233-1330

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.ca



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