

TECHNICAL BULLETIN

POLYGLASS U.S.A., Inc.
Corporate Office
1111 West Newport Center Drive
Deerfield Beach, Florida 33442
Tel. (954) 233-1330 - Fax (954) 418-4453

Email: technical@polyglass.com
Website: www.polyglass.com

Technical Bulletin #2016-#02

TO: All Polyglass Users
CC: POLYGLASS Sales & Technical Services
Date: March 02, 2016
Author: Steven C. Wadding RRC,RRO,CDT
National Technical Services Manager
RE: Suitable Substrates to Heat-Fused (Torch) Membranes/Systems

The following information is a guideline for the use of heat-fused (torch-applied) membranes which is to include use as a Low-Slope membrane and/or Steep-Slope membrane.

***Suitable Substrates suggestion to receive heat-fused membrane applications:**

Concrete Products (Requires Priming)

- Structural Cast-in-Place
- Non-Structural Cast-in-Place
- Limited Pre-Cast applications
- CMU (vertical wall only)

Metals and Metallic Surfaces

- Most Ferrous and Non-Ferrous Metal (Requires Priming)
- Latent Aluminum Reflective Roof Coatings (Requires power washing and Priming)

Rigid/Semi-Rigid Coverboards

- USG Securock Roof Board (Priming not Required)
- Georgia Pacific: DensDeck Prime Roof Board (Priming not required);
DensDeck Roof Board (Requires Priming)
- Asphaltic boards with mat surfaces

Asphaltic Membranes

- Any SBS or APP base membrane having a sand or burn-off film
- **Oxidized Asphalt, SBS & APP polymer modified asphalt surfaces



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Thermal Insulations

- Fibrous Mineral Wool with appropriate surface and compressive strength (refer to board manufacturers published recommendations)

****Substrates not recommended to receive direct heat-fused membrane application:**

Wood Deck Products (Not recommended due to high fire risk/exposure)

- APA Rated Exterior Grade Plywood
- APA Rated Exterior Grade Oriented Strandboard
- Dimensional Lumber; Square Edge boards 1x4 or 1x6, Wood Plank 2 5/8", Shiplap and T&G 1x4 or 1x6.
- Zip System Roof Sheathing

Thermal Insulations

- Perlite
- Foil Faced Insulation
- Extruded Polystyrene; fan-fold, board stock, unless otherwise approved by Polyglass)
- Wood Fiberboard (other than asphalt impregnated 6 six-sided)
- Fibrous Glass or Mineral Wool without an appropriate surface or compressive strength (refer to board manufacturer's published recommendations)

Concrete Products

- Lightweight Insulating Concrete [LWIC] (nailable)
- Gypsum
- Duraboard or similar

Metal and Metallic Surfaces

- Silicone coated surfaces
- Aluminized Emulsion

Asphaltic/Non-Asphaltic Membranes

- Foil-Faced membranes
- Granule and Aggregate Surfaced Membranes
- Synthetic underlayment (unless otherwise approved by Polyglass)
- Organic Felts (saturated and/or coated)

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*Note: Not all substrates noted as suitable may qualify for manufacturer's warranties, or may be subject to certain limitations or exclusions. Non-supported gaps in wood decking such as dimensional lumber, wood plank, shiplap and T&G may adversely affect product performance without an appropriate anchor sheet or board.

**Note: Some substrates may be suitable for limited conditions or project circumstances and should be pre-approved by Polyglass Technical Services.

- 1) All surfaces to receive heat-fused membranes are to be clean, dry and free of any surface contaminants that could adversely affect bond of the product.
- 2) Asphalt Primer to be compliant with ASTM D 41. Polyglass PG-100 Primer is recommended.
- 3) Polyglass recommends the use of modified mastics with all SBS and APP membranes. Polyglass PolyPlus 50 is recommended.

Refer to product data sheets, published requirements or contact Technical Services for questions in regards to primer/mastic choice and application for specific conditions.

This Technical Bulletin is intended to serve as a guideline and not intended to address all products and project circumstances. Consult Polyglass Technical Services for assistance for specific project concerns.

Special circumstances and questions should be addressed to POLYGLASS Technical Services Department.

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