

MODIFLEECE™ SYSTEM APPLICATION GUIDE

Substrate Preparation & Installation Guidelines

The surface(s) must be relatively even, clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane. Rough surfaces that could damage the membrane must be overlaid with acceptable insulation/recover board. There should not be any form of water present on the deck. For substrates requiring cure time (e.g., structural concrete, LWIC) please follow manufacturers recommendations before installing membrane.

Refer to the Product Data Sheet of the Polyglass LRF (low rise foam) being used for the application temperature range. The temperature of the LRF should be between 70° – 85°F (21° – 29°C). The surfaces being bonded should be at 40°F (4°C). Temperatures outside this range may affect bonding range, dispensability, and performance of the product.

While installing Modifleece on existing modified bitumen membranes, loose granules need to be removed by sweeping, blowing or power brooming.

Install only as much Modifleece membrane as can be completed and made watertight during the working day. Polyglass recommends the use of a compatible sealer to temporarily seal the new roofing membrane to the existing roof system overnight. **Do not install membrane if fleece backing is wet.**

Polyglass Low Rise Foam Application

1. Reference the detailed application instructions on the Product Data Sheet of the Polyglass LRF (low rise foam) being used.
2. Do not remove the tanks from the boxes.
3. Before opening the boxes to connect the included hoses and gun, shake each tank for approximately sixty (60) seconds to ensure a well-mixed product.
4. Connect the hoses by passing the hose connectors through the box opening so the box lid can still close and shield the canisters from direct sunlight.
5. Hand thread the hoses to their respective cylinders and tighten the fixtures using the included open wrench.
6. Open both cylinder "T" valves completely and watch for chemicals flowing down through the hose lines. Ensure valves are completely open.
7. Engage the safety stop on the gun to prevent any unintended discharges and apply a small amount of the included petroleum jelly to the guns face and two spray orifices.
8. Connect the spray nozzle to the gun and perform several test shots. The pressure from the tank's first discharges will be inconsistent. Several test shots are recommended until the desired output and spray pattern is achieved. Apply several test shots on plastic or cardboard before beginning the job.
9. Applying a small amount of adhesive to the corners of the cartons helps maintain the cartons' integrity and aids in maintaining the adhesive at a steady temperature.
10. Once the desired spray pattern is achieved the Polyglass low rise foam is ready for use.
11. If spraying is stopped for more than 60 seconds, the nozzle must be replaced to ensure that the proper mix of the two components is maintained.



Modifleece Application Instructions

1. Position the two first courses of Modifleece starting at the lowest portion of the deck pitch, in "shingle" fashion, ensuring proper water shedding. Ensure the position of the first course will align with the side lap of the following course a minimum 3", as indicated by the pre-marked lay lines.



Step 1

MODIFLEECE™ SYSTEM APPLICATION GUIDE

2. Fold back Modifleece membrane in “butterfly” fashion exposing fleece backing half of underside. Repeat this step for the following course.



Step 2

Note: Polyglass allows an alternative “Spray and Unroll Method” where the product is unrolled instead of folded out in butterfly fashion, as pictured below. When using the unroll method, it is recommended that the first course be installed in the fold method to assure proper alignment of subsequent rolls being installed using the unroll method. **Avoid contaminating the side lap region with overspray of Polyglass low rise foam adhesive.** Doing so may compromise watertightness of side lap.



3. Spray-apply Polyglass low rise foam adhesive in spatter pattern to the substrate and allow foam to set approximately 1–2 minutes before setting the Modifleece membrane into the adhesive. Do not allow the adhesive to skim over, which may happen quickly on warmer days. The proper spatter pattern will yield a heavily textured, even coating of approximately ¼" to ½" nominal thickness height on the droplets of the sprayed adhesive.



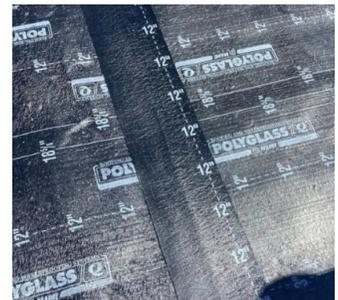
Step 3

4. Overlap the side laps and remove the release film, exposing the self-adhesive surface. Roll the Modifleece membrane with a 35 pound weighted roller to ensure full embedment. Firm brooming or a 75 pound roller are also acceptable.



Step 4

5. Butt the end laps and seal with nine inch (9") wide Elastoflex SA V Flashing Strips. Roll all self-adhered laps with a silicone roller. In colder weather, touching up the seams with a flameless torch such as the Polyglass RKD-4 Kit will promote lap adhesion.



Step 5

POLYGLASS



www.polyglass.us

MODIFLEECE™ SYSTEM APPLICATION GUIDE

6. Repeat steps 1–5 as needed to cover the remaining areas of the roof.
7. Install approved self-adhered or heat-welded Polyglass APP or SBS cap sheet (plus interply if required) per Polyglass recommended installation guidelines. **Note:** When heat welding an APP or SBS membrane to Modifleece, allow 4–6 hours before installation, to allow time for Polyglass low rise foam to cure.



Step 7

For more information contact your Polyglass Technical Services Representative or visit polyglass.us for installation videos and roofing details.

Existing Roofing Substrate	Acceptable for Polyglass Warranty
Polyboard E	Yes
Smooth BUR	Yes
Gravel BUR	Yes*
Granular SBS	Yes
Smooth SBS	Yes
Coal Tar Pitch	No
Granular APP	Yes
Smooth APP	No
Aluminum-Coated BUR	Yes**
Unweathered Asphalt	No
Wood	Yes
Tectum	No
Gypsum	Yes
Polyiso Insulation	Yes
Polyiso Insulation (CGF)	Yes
Lightweight Insulating Concrete (LWIC)	Yes
Structural Concrete	Yes
Dens-Deck Prime/Securock	Yes
PolyVap SA G	Yes
PolyVap SA S	Yes
XPS	Yes

*Minimum 1/2" coverboard required over properly-prepared gravel surface

** Any loose coating must be removed.