

Product:
Issue Date:

FiberTite Fleece-back Membranes in FTR 601-PG Adhesive
3-02-2021

Application Guidelines for Installing FiberTite Fleece-back Membranes in FTR 601-PG Adhesive

Introduction

Seaman Corporation offers the optional use of FTR 601-PG (pump grade) adhesive for installation of FiberTite fleece-back (FB) membranes utilizing a low-pressure spray to create a “spatter” pattern over approved properly prepared substrates.

Application of FTR 601-PG requires the use of the H.B. Fuller Cyclone 5/15 VS PLUS – a modified Millennium Cyclone with a compressor and airline attached to a special mixing tip to properly disperse the pump grade adhesive in a spatter pattern. Parts are available to modify the Millennium Cyclone 5/15. Contact H.B. Fuller – Construction Products (800-248-4010) for availability and costing.

SAFETY

Protective equipment such as safety glasses and protective gloves must be worn when operating or servicing the Millennium Cyclone 5/15. Environmental conditions may require additional PPE, such as a respirator when applying low-pressure spray adhesives.

Contents

Pre-application/Prep	Tools & Equipment [section link] Materials Storage and Use [section link] Roof Conditions/Surface Prep [section link]
Application Guidelines	Guidelines for Installation [section link] Clean up [section link]
Technical Support	References [section link]

Technical Services

Application Guidelines for FiberTite Fleece-back Membranes in FTR 601-PG Adhesive

Pre-application/Preparation

Tools & Equipment:

- Cyclone 5/15 VS PLUS – 2 speed Cyclone
 - Air Compressor
 - Air-line
 - Check Valve Static Mix Tip w/Bayonet Ring
 - Check Valve Manifold
 - Ultra-Low-Pressure Spray Nozzle
 - Check Valve Manifold plug
 - Pneumatic Regulator
 - Pneumatic Ball Valve
- Roof broom
- 50 lb. (22.7kg) Linoleum Roller, [or](#) Weighted, Foam Covered Lawn Roller

For Cold Weather Applications:

- Heater wraps for the spray gun and hoses
- Heater wraps (blanket) for the adhesive components

[see fig 1]

fig 1 - The Cyclone 5/15 VS PLUS by Garlock is a modified Millennium Cyclone and requires a compressor and air-line attached to the mixing tip



Materials Storage & Use:

Until ready for application, FTR 601-PG adhesive components are to be stored at a minimum maintained temperature between 65°F to 85°F (18°C to 29°C) for 48 hours prior to use.

Storing adhesive below the minimum temperature range prior to use will likely cause a negative effect on mixed adhesive components' reaction and cure time, including reduced expected coverage rates, and the mix of Part-A and Part-B components can be altered if the adhesive components are too cold to mix properly.

- **Caution - If adhesive components are permitted to freeze, they will crystalize and must be legally disposed of off-site.**
- **If adhesive components are exposed or stored at temperatures below 60° F (16° C) for an extended period, the adhesive components must be restored to minimum temperature prior to use.**

FTR 601-PG Adhesive Components (Parts A & B) must be mixed at a 1:1 ratio.

Substrate and ambient temperatures at time of FTR 601-PG application must be 32°F (0°C) & rising.

Technical Services

Application Guidelines for FiberTite Fleece-back Membranes in FTR 601-PG Adhesive

Pre-application/Preparation (continued)

Materials Storage & Use (continued):

When applying FTR 601-PG in temperatures below 40°F (4.4°C), the Cyclone 5/15 VS PLUS requires a heated wrap on the hoses and spray-gun and a warming blanket on the adhesive components to ensure that they maintain proper temperature, and properly mix and disperse.

- **Ambient and substrate temperatures are to be recorded daily and submitted at project completion.**

Failure to follow parameters set forth above will result in nullification of Seaman Corporation FiberTite warranty commitments for the project.

Roof Conditions/Surface Preparation:

All work surfaces (substrate, insulation and cover board) must be clean, dry, free of frost or ice crystals, dirt, dust and debris.

Acceptable substrates:

- Gypsum-based Coverboards
- FTR-Value Insulation
- FTR-SBS Base Sheets
- Existing Smooth Bituminous Membranes
- Granulated Bituminous Cap Sheets
- Structural Concrete

Application Guidelines

Guidelines for Installation:

1. Unroll and Position two (2) rolls of FiberTite-FB membranes with a 3-inch (76mm) minimum overlap over the prepared substrate. Ensure membrane sheets are straight and maintain the minimum 3-inch (76 mm) overlap.
2. Fold back (butterfly) each membrane sheet half-way upon themselves in the long direction to expose the substrate and the underlying polyester fleece backing.
3. Apply continuous spray (spatter) pattern of FTR 601-PG adhesive to the substrate between the sheets of membrane.
4. Spatter pattern shall achieve a nominal 80 percent coverage of textured coating at approximately 0.25-inch (6 mm) nominal thickness [fig 2].
 - a. The balance of the substrate will become coated as the adhesive spreads during the brooming and rolling process.

fig2 - Proper distribution of
 FTR 601-PG low pressure spray
 (spatter) pattern
 section shown: approx. 7" x 3"
 @ 80% coverage

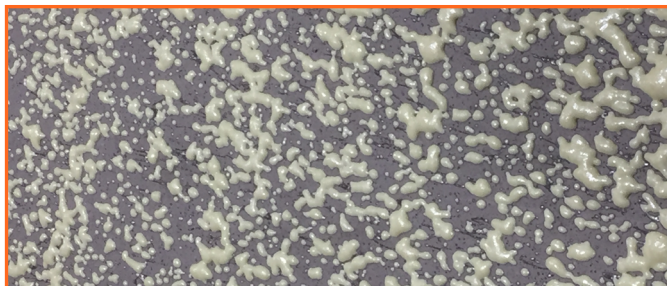


fig 2

Application Guidelines (continued)

Guidelines for Installation (continued):

5. Avoid applying adhesive spatter to the back of the fleece-back membrane.
6. Avoid adhesive contamination of membrane overlaps. For example; use a sheet of insulation board to mask the spray area if required along adjoining membrane areas.
7. Clean overspray immediately with acetone while the adhesive is still wet.
8. Fold and maneuver the folded-back FB membrane into the wet adhesive, avoiding wrinkles or air pockets in the FB membrane.
9. Broom the entire surface of the membrane, applying pressure to press it into the adhesive while still wet. Approximate open/ tack time of adhesive is 3 – 5 minutes dependant on environmental conditions.
10. Complete the bonding process by rolling the entire surface of the bonded membrane with a 50 lb. (22.7 kg.) linoleum roller or weighted foam covered lawn roller.
11. Lap subsequent, adjacent rolls of membrane a minimum 3 inches (76 mm), ensuring proper shingling of the membrane to shed water along the laps.
12. No adhesive shall be applied to the lap seam areas of the membrane. Areas contaminated with adhesive require an overlay/ cover-strip of FiberTite membrane.

Clean Up:

Daily site cleanup shall be performed to minimize debris and hazardous congestion.

Technical Support

For more information, or to contact a FiberTite Roofing specialist, visit www.FiberTite.com

References:

[FTR 601-PG Product Data Sheet](#)