



FlameSeal TB-Pro Application Guide

Description

TB-Pro Thermal Barrier is a water-based latex coating for use as a thermal Barrier over Spray Polyurethane Foam (SPF) insulation. TB-Pro uses intumescent technology to protect SPF from flame source impingement. TB-Pro is designed as a protective coating over spray foam insulation in habited areas where the foam is not covered by a secondary fire protection system in both residential and commercial structures. The product has been tested successfully via the NFPA 286 and meets the criteria as a thermal barrier over SPF.



Application

The standard recommended application method for TB-Pro is an airless spray system. Small jobs or touchups may be performed by roller, or brush. TB-Pro must be applied to surfaces free of dirt, grease, loose particles, and any foreign matter. Thorough mixing is required prior to application. Coverage rates may vary depending on SPF density, brand, and testing results. Please seek proper application coverage specs from either the SPF manufacturer or a FlameSeal Testing Matrix.

Recommended Spray Equipment

FlameSeal TB-Pro should be applied with an industrial airless sprayer. See examples of FlameSeal recommended Airless Sprayers and Equipment.

Dynamic	At Gun	TIP SIZE
3000 PSI	2000 PSI	.025-.033

Graco	Ultra Max II 795/1095
Titan	Impact 840/1140

*Remove all filters!

Substrate Preparation

TB-Pro must be applied to surfaces free of dirt, grease, loose particles, and any foreign matter. Thorough mixing is required prior to application. The quality of any application is only as good as the surface preparation that precedes the application. Verify the surface is stable, and not crumbling or deteriorated. If any such defects are found, make sure to repair them prior to proceeding.

Application Temperatures

Air Temperature	60°F – 90°F
Humidity Range	40 - 60%
Surface Temperature	60°F – 90°F
Application Product Temperature	60°F – 90°F

Material Preparation

Mix FlameSeal TB-Pro with a 1/2-inch drill mixer for 3-5 minutes for a 5-gallon pail and 17-20 minutes for a 55-gallon drum to ensure that that the product is properly blended. If FlameSeal TB-Pro is not properly mixed it can compromise the application.

Storage

FlameSeal TB-Pro should be stored between 45°F – 90°F. The product must be protected from freezing during Shipping, Storage, and Application. Note: If the product has been frozen, please contact your FlameSeal representative.

Clean Up

FlameSeal TB-Pro is a water-based, single-component coating. FlameSeal TB-Pro can be cleaned up with water.

Application Procedure

1. If using an airless sprayer, the airless spray unit, hoses, and the gun must be thoroughly cleaned before using FlameSeal TB-Pro. All filters must be removed.
2. We recommend a .021-.025 nozzle to be used with FlameSeal TB-Pro.
3. Ensure that the surfaces are clean and free of dust, oils, and other materials. Repair any compromised areas.
4. Conduct environmental analysis to determine that the temperature, humidity, and dew point are within guidelines. (air temperature 60 – 90 degrees; surface temperature 60 – 90 degrees; humidity 40 – 85%. The temperature must be at least 5 degrees above dew point) If the conditions are outside these requirements, introduce dehumidifiers or fans.
5. Ensure that everyone near the application is using personal safety equipment.
6. We recommend using test plates with a wet mil gauge to check wet mil depth. These test plates should be placed strategically across the project and retained as an element of project documentation.
7. Mix FlameSeal TB-Pro with a 1/2-inch drill mixer for 3-5 minutes for a 5-gallon pail and 17-20 minutes for a 55-gallon drum to ensure that the product is properly blended. If FlameSeal TB-Pro is not properly mixed it can compromise the application.
8. Apply FlameSeal TB-Pro in a smooth, overlapping pattern ensuring that all surfaces receive the correct thickness of the coating. Test depth regularly with a wet mil gauge and use test plates.
9. Under normal conditions, FlameSeal TB-Pro is dry to the touch in 2-4 hours. Maintain temperature and humidity for 24 hours so that FlameSeal TB-Pro is fully cured.
10. Clean-up overspray and airless spray unit with water. Make sure that the airless sprayer has been thoroughly cleaned before leaving the job site.



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