

OVERVIEW & FEATURES

LiquiTec FG is an extremely low odor, fluid-applied waterproofing flashing membrane designed to be installed on vertical flashing components of a Garland roof restoration. This two-component, 100% solids, aliphatic polyurea has a higher viscosity, allowing it to be applied in thicker applications on vertical substrates to help resist sagging. LiquiTec FG can easily be applied by brush or roller.

Low Odor & Applicator Friendly – Virtually odorless with no VOCs, this restoration system is ideal for sensitive applications like hospitals, schools and any other structures where occupants are present. This two component product provides faster curing and rain resistance, promoting more efficient installations.

Chemical/Fungal Resistance – LiquiTec FG's aliphatic formulation resists chemical and fungal attack.

Tough Seamless Membrane – Cures to an extremely tough and resilient membrane that forms a barrier against hail, foot traffic, wind scour and other impact that commonly damage roofs. It seals existing roof membrane seams where roof leaks and other damage can occur.

Versatile Waterproofing – Can be used to seal laps/seams, make spot repairs, or restore entire roofing systems. Its outstanding waterproofing protection is ideal for low-slope roofing projects.

PREPARATION

Make any necessary repairs, including removal of any wet insulation and roofing materials and replace with like materials. Allow repairs to cure completely. Confirm local water run-off ordinances and restrictions prior to cleaning roof. Carefully power wash all roof surfaces with greater than 2,000 psi pressure to remove debris, rust, scale, dirt, dust, chalking, peeling or flaking coatings, etc. Do not force water into the roof system or damage roof surfaces. Wearing personal protective clothing and equipment, remove areas of algae, mildew or fungus with Simple Green Solution. Rinse at least twice to be sure all cleaning agents or contaminants are completely removed to prevent adhesion issues. If the roof surface becomes contaminated with dirt, dust or other particles at any time during the application of the LiquiTec FG system, cleaning measures must be taken to restore the surface to a suitable condition.

APPLICATION

Refer to the LiquiTec Restoration Application Guides (Single-Ply, Modified Bitumen or Metal) for complete substrate specific repair, preparation and application requirements.

LiquiTec roof restoration systems typically require either partial reinforcement of seams, laps and details or full fabric reinforcement of the entire existing roof surface.

Mixing – Open LiquiTec FG container. Remove Part B jug and its plastic holding compartment out of the pail. Mix Part A liquid for one minute using an electric heavy-duty power drill and Jiffy mixer blade (ES model). Cordless drills are not permitted as they will not properly mix the materials. While mixing, slowly pour contents of Part B jug into the Part A pail. Mix the two components together for two (2) minutes moving the Jiffy blade from top to bottom and along the sides to ensure the product is thoroughly mixed. Always mix entire kit contents together as packaged. **Do not break down into smaller quantities.**

PRECAUTIONS

- Substrate to receive LiquiTec FG must be clean, dry and free of any moisture.
- **Roof surface must be at least six Fahrenheit degrees or three Celsius degrees above the dew point and rising.**
- LiquiTec FG (White) may not be used as the base coat layer.
- Product application must not be done when rain or other conditions such as fog or heavy dew are possible within a 12-hour period.
- Moisture survey must be conducted prior to roof restoration to identify any wet areas of the existing roof system that must be replaced with like-materials.
- In accordance with Garland's adhesion testing protocol, ensure that the LiquiTec coating bond strength to the existing roof substrate(s) is four (4) pounds per linear inch (pli) or greater
- Storage temperatures should be between 60°F to 80°F (15.6°C to 26.7°C). Indoor ventilated storage is recommended. Ensure job site storage is in a shaded and ventilated area. Do not store in direct sunlight.
- Rising temperatures may reduce pot life and increase the product's viscosity at a faster rate than desired.
- Mix product near the application area and only enough material that can immediately be applied to the roof.
- Do not spray.
- Coverage rate varies depending on warranty and substrate.
- Restrict coating application when ambient temperature is greater than 95°F (35°C).
- Excess water on the roof surface can cause the roof to become slippery.
- Not intended to restore glaze coats of asphalt.

| Technical Data | LiquiTec FG |
|---|---|
| Density @ 77°F (25°C) (ASTM D 2939) | 11.7 lb/gal. (1.4 g/ml) |
| Tear Resistance (ASTM D 624) | 449 lbs./in. |
| Elongation | >800% |
| Tensile Strength (ASTM D 412) | >2500 psi |
| Low Temperature Flexibility (ASTM D 522) | -60°F (-51°C) |
| Hardness | 80 Shore A |
| Lap Shear Strength Modified seam with LiquiTec (ASTM D 7379) | 231 lbf/in. |
| Volume Solids (ASTM D 2697) | 100% |
| Water Absorption (ASTM D 570) | 1.53% (24 hr) |
| Drying Time* (Typical) @ 77°F (25°C) and 50% R.H. | Skin time: 3-4 hours Over-coat time: 6 hours |
| Packaging | 3 gal kit (11.3 L) |
| Water Leakage Resistance (ASTM D 7281) | Pass |
| Shelf Life | 12 months, stored properly and unopened |
| VOC (mixed) | 0 g/l |
| Colors | Gray & White |

* Higher temperature will result in reduced skin and over-coat time, lower temperature and/or humidity may extend times.

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.



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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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