

TURBO POLY SEAL

TECHNICAL DATA SHEET | Bergstrom Application Guidance

Product description & uses

A polyurethane-bitumen liquid flashing and repair coating used with polyester fleece to seal seams, cracks and transitions. Typical applications include metal roof seams, chimney flashing, roof drains, vent flashing, gutter seams, modified-bitumen roofing and transitions between compatible materials.

Surface preparation & compatibility

Surfaces must be completely dry, sound and clean at the repair area. Remove silicone caulk and residue, loose rust, dust and material that could prevent adhesion. Secure loose seams and fasteners before coating. Remove unstable paint or existing coatings. Existing silver/aluminum coatings can peel beneath a repair; removal is recommended for best results.

Bergstrom guidance permits use on prepared TPO and on tar that is flat, hard and clean. Do not apply over dried, cracked or unstable tar. Turbo Poly Seal is not compatible with EPDM rubber and does not adhere to glass. Confirm substrate suitability before use.

Application with polyester fleece

- 1. First coat:** Apply a thin, continuous coat slightly wider than the fleece. Use a disposable brush to work the material into the repair area.
- 2. Embed fleece immediately:** Place 4-inch polyester fleece into the wet coating before a skin forms. Press it into corners and transitions and remove air pockets. Overlap fleece by approximately 1/2 inch, placing Turbo Poly Seal between overlapping layers.
- 3. Topcoat:** Apply a generous coat that completely covers and encapsulates the fleece. No white fabric or exposed fleece pattern should remain. Do not leave polyester fleece exposed to sunlight.

This is Bergstrom Industries' two-coat repair method: a base coat and a topcoat with fleece between them. It is distinct from the source manufacturer's three-coat flashing specification.

Coverage - Bergstrom field estimates

Seams and cracks: approximately 15-20 linear feet per 1/2 gallon using 4-inch fleece. Actual coverage varies with temperature, surface texture and the amount of material needed.

Rough surfaces, such as a cement chimney crown: approximately 15 square feet per 1/2 gallon for one coat. This is not the coverage of a complete reinforced system; additional material is needed for fleece and topcoating.

Protective finish

Silver Coat Protection may be applied over Turbo Poly Seal while it is still wet, within 10 minutes of application, based on repeated field testing reported by Bergstrom Industries. This is Bergstrom-specific guidance, not a source-manufacturer validated system specification. Refer to the Silver Coat Protection TDS for its weather and application restrictions.

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TECHNICAL DATA SHEET | Field Timing, Properties & Handling

Skin formation, cure & recoating

Bergstrom field observations: a surface skin typically forms in approximately 5-15 minutes, with about 5 minutes reported on warm days. Typical cure is reported as 24-48 hours, with slower curing in cold conditions and faster curing in warmth. These are field estimates, not guaranteed performance under all conditions.

Skin formation does not establish rain resistance or full cure. The source manufacturer lists rain resistance at 2-12 hours at 68°F and full cure at 3 days. Those laboratory/source values have not been replaced by the shorter field observations. Plan around the longer values where rain exposure or full cure matters.

An additional coat of Turbo Poly Seal may be applied after approximately 2-3 hours. For older repairs, remove an existing protective finish where necessary and prepare the surface before recoating. Wet-on-wet Silver Coat Protection application is a separate Bergstrom instruction, as described on page 1.

Selected source technical properties

Property	Source value
Product type / color	Polyurethane-bitumen liquid flashing / brown
Viscosity	150,000-220,000 cP
Solids content	80%
Flash point	105°F (40.5°C)
VOC content	Less than 225 g/L
Cleanup	Mineral spirits

Storage & cold-weather handling

Store upright in a clean, dry area, protected from extreme temperatures, moisture and direct sunlight. Do not allow to freeze. Keep partially used containers tightly sealed and storage areas clear of combustible material. The source lists approximately 12 months shelf life with proper storage.

When ambient temperature is below 40°F, the source recommends conditioning the material to 70°F before application; this may take up to 24 hours. Conditioning the material is not a minimum ambient application-temperature rating. Contact Bergstrom Industries for project-specific cold-weather guidance.

Safety & technical basis

Read the Safety Data Sheet and container label before handling, application or solvent cleanup. Follow their ventilation, ignition-control and protective-equipment requirements. This TDS does not replace the SDS.

Bergstrom application, coverage and field observations are presented separately from selected source data in Product Data Sheet PD10221, revision 230227. Inconsistent source coverage and temperature-table entries are omitted. No manufacturer warranty, approval or certification is transferred by this document.

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