

TPO	Roof	Recovery	Applications
General			

Impermitek's liquid applied membranes can be used for roofing overlays, flashings, and tie-ins on qualified TPO single-ply roof membranes using Single Ply / Plastic Primer, Standard Self-Adhered Base Ply, or Foil-Faced Carrier Layer.

However, as conditions of existing TPO membranes may vary based on time, exposures, and weathering, prior to work startup, one or more 12 x 12 in (305 x 305 mm) minimum TPO membrane samples representative of the existing roof condition(s) must be forwarded to Impermitek's Technical Team for evaluation and project approval, as well as preparation recommendations. **NOTE:** Applications without Impermitek's evaluation and written consent will not qualify for Impermitek Warranty.

The existing TPO field membrane must remain in place as a substrate for the new liquid applied membrane. Preparation may include substrate repairs, additional securement, elimination of incompatible materials, and cleaning.

Typically, existing flashings are completely removed and replaced with new Impermitek liquid applied membrane flashings installed in their place. However, depending on project condition and requirements, existing flashings may remain in place and be overlaid with Impermitek liquid applied membrane flashing extending 4 inches (100 mm) above the top vertical termination of the existing flashings when approved by Impermitek's Technical Team.

TPO Membrane Cleaning

Where Impermitek membranes will be applied in a direct recovery over an existing TPO roof, the existing membrane surface, flashings, and accessories must be appropriately cleaned to remove all dust, dirt, debris, mold, moss, or fungal growth.

Cleaning requirements may vary depending on individual project needs. For certain applications, cleaning may require use of water-based surface cleaners, fungicides, and pressure washing. Substrates must be free of any residues, clean, and fully dry prior to proceeding with application of Impermitek components.

Refer to Impermitek's TDS "**Roof Recovery Substrate Evaluation, Repair & Cleaning Guidelines**". In addition, refer to the existing roofing manufacturer's cleaning guidelines and/or roofing industry guidelines where appropriate.

Other Flashing Substrates

For all other flashing substrates, prior to application of any Impermitek products or materials, the substrate shall be prepared as recommended by Impermitek and/or required for the intended application. All substrates must be clean, dry and free from gross irregularities, loose, unsound or foreign material such as dirt, ice, snow, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion of Impermitek system components to the substrate.

Refer to Impermitek's TDS "**Liquid Applied Component Substrate Preparation Guidelines**" for complete requirements and recommendations.

TPO Membrane Preparation

Unless otherwise noted, all acceptable TPO single ply membrane surfaces must be prepared as follows:

Flashing Tie-Ins Only

Scrub the TPO single ply membrane surface to receive application of Impermitek's components using a heavy-duty solvent resistant synthetic fiber scouring pad thoroughly wetted with Impermitek Cleaner. Using a clean rag, wipe the single ply membrane surface removing any excess Cleaner. Allow the Cleaner 15-20 minutes to completely flash-off prior to applying the Single Ply / Plastic Primer or other acceptable Impermitek primer as recommended or required.

Un-Weathered TPO Membranes - Full Overlay

The TPO membrane to be recovered should be gridded off into section for cleaning and application. The areas sections should be sized to allow cleaning and recovery membrane application within 60-minute periods.

Using clean rags, wipe down the TPO single-ply membrane surface with Impermitek Cleaner and allow the cleaner 15-20 minutes to completely flash-off prior to applying the Single Ply / Plastic Primer or acceptable Self-Adhered Base-Ply as recommended or required. **NOTE:** Impermitek's Single Ply / Plastic Primer may not be required for applications where ambient temperatures are 70°F (21°C) or higher at the time of application.

Weathered TPO Membranes - Full Overlay

The TPO membrane to be recovered should be gridded off into sections for cleaning and application. The area sections should be sized to allow cleaning and membrane application within 60 minute periods.

Weathered TPO membranes should be lightly abraded and wiped with Impermitek Cleaner. Maximum 1/8 in (3 mm) beyond the specified termination of the Preparations should extend to the termination edge of Impermitek's liquid-applied membrane materials.

Following the membrane abrasion, using clean rags, wipe down the TPO single-ply membrane surface with Impermitek Cleaner and allow it 15-20 minutes to completely flash-off prior to applying Single Ply / Plastic Primer or acceptable Impermitek Self-Adhered Primer and Base-Ply as recommended or required.

For all applications, Impermitek recommends confirming substrate preparation and bond strength with field peel adhesion testing before proceeding with application of Impermitek components. Bond strength tests should be performed periodically by the contractor throughout the course of work.

Refer to Impermitek's TDS "***Self-Adhered Base Ply Substrate Preparation & Application Guidelines***" for complete instructions and recommendations.

NOTE: Impermitek's Self-Adhered Base-Ply and Self-Adhered Primers should NOT be applied directly over EPDM (ethylene propylene diene monomer synthetic rubber) or PVC (thermoplastic polyvinylchloride) membranes. Contact Impermitek Technical Team for project specific recommendations.

Other Conditions

For additional information or questions pertaining specific conditions not found in this guideline, please, contact Impermitek's Technical Support

DISCLAIMER

The purpose of this Guide is to provide fundamental information and important design and/or application considerations for Impermitek roofing, waterproofing and surfacing assemblies. Impermitek manufactures and sells roofing, waterproofing, and traffic surfacing materials and does not practice architecture or engineering.

Impermitek is not responsible for the performance or damage to its products caused by improper building design, construction flaws, or defects in workmanship. These guidelines should not be construed as being all-inclusive, nor should they be considered substitutes for good application practices. This document and/or any other literature produced by or on behalf of Impermitek are offered for the purpose of guidance and must be evaluated and modified by the Designer of Record and or applicator for each individual project as needed.

The design and use responsibility of Impermitek products remains with the architect, engineer, roofing contractor, or owner. Please consult your design professional for more information. Impermitek's responsibility is limited to the terms and conditions of the project warranty, which takes effect only when issued in writing by Impermitek to the customer. Specimen warranties are available on request.