GenFlex™ EZ TPO Peel & Stick™

GenFlex™ EZ TPO Plus Peel & Stick™

Guide for Applicators

April 2026

NOTE: The contents of this guide are considered accurate at the time of posting. All information contained within should be validated for accuracy as it relates to specific project conditions or requirements. Specific codes, uplifts or other factors may result in changes to the information contained within this document. Validate all specific conditions with a Regional Technical Coordinator prior to its use.

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General

This section of GenFlex's Technical Database outlines instructions for the installation of GenFlex's EZ TPO Peel & Stick and GenFlex's EZ TPO Plus Peel & Stick self-adhered membrane with SecureBond™ Technology. Reference to the TPO Design and Application Guides, Product Data Sheets, details, and other sections of GenFlex Technical Specifications is necessary to ensure that the involved products and finished roof system are installed in compliance with GenFlex requirements and therefore eligible to receive a GenFlex™ Warranty.

Preparation

!	It is the roofing contractor's responsibility to ensure that the substrate is acceptable for the GenFlex roof system.
	GenFlex does not approve of or recognize the results of destructive testing by others for the purposes of project close-out or to satisfy contract requirements. Any damage caused by such testing may prevent GenFlex from issuing a warranty. GenFlex is not responsible for costs associated with repairs or enhancements performed to the roof system as a result of testing.

Approved substrates must be clean, dry, and free of foreign material such as grease and any debris which could inhibit adhesion. This may require cleaning with a broom or blower. An acceptable GenFlex Primer (GenFlex Clear Primer, GenFlex Clear Primer LVOC, or GenFlex Quick Jet Adhesive) is required for vertical application and membrane overlaps, but no primers or adhesives are necessary for field membrane attachment over suitable substrates. Refer to the GenFlex EZ TPO Peel & Stick Product Data Sheet for additional information.

- Secure insulation per current GenFlex technical specifications to provide a proper substrate for membrane application.
- Install EZ TPO Peel & Stick membrane only when ambient and substrate temperatures are min. 20 °F (-7 °C) and rising. Do not install EZ TPO Peel & Stick below this minimum temperature.
- Unroll and position the membrane over the substrate to achieve the desired alignment and overlaps. Allow the membrane to relax a minimum of 30 minutes before final positioning and adhering.
- Position adjoining sheets in a manner that the seams shed water or run parallel to the flow of water.

Membrane Attachment

Membrane Positioning

Position adjoining sheets allowing for a minimum 3" (76 mm) side lap. EZ TPO Peel & Stick end laps are completed with a butt lap or a primed 2" (51 mm) overlap. A butt lap splice shall have no more than 1" gap between the sheet ends and be stripped in with an 8" (203 mm) reinforced, heat-welded 60 mil TPO membrane cover strip. A primed 2" (51 mm) overlap may be stripped in with a welded cover strip or a section of TPO Peel & Stick 5.5" Flashing set in Clear Primer or Clear Primer LVOC. TPO primer is required wherever EZ TPO Peel & Stick membrane laps onto itself. Refer to GenFlex Product Data Sheets and published details for additional information.

Method of Application – Field Membrane Application

1. Once the membrane has relaxed in place a minimum of 30 minutes (longer in colder weather), and the seam positions are aligned, carefully fold back the leading edge of the membrane at one end to expose the release liner without disturbing the original position of the membrane. Do not fold the length of the roll in half to remove the release liner.
2. Starting from the center split of the exposed release liner, remove the liner on both sides of the split at a 45° angle back beyond the membrane edge. Be sure to pull enough of the release liner to extend out beyond the membrane edge.
3. Expose a minimum of 5' (1.5 m) of the SA membrane (with adhesive) at the end of the sheet and back-roll it onto the substrate. The removed release liner should extend out at an angle beyond both edges of the membrane.
4. Keeping the membrane flat and secured, and seam overlap aligned, continue removing the release liner at a 45° angle, parallel to the roof surface, along the entire length of the sheet. Pulling the release liner at an alternate angle may cause the sheet to move or may trap air. The two halves of the release liner are to be removed simultaneously by two people. Keep the release liner as close to the roof surface as possible during removal. **NOTE: Removal of the release liner and handling of the exposed SA adhesive should be completed by two persons minimum.**
5. To initiate adhesion, use a stiff bristled broom and apply downward pressure to broom in the installed membrane across the width of the sheet working from the center toward the edge. Repeat the process for the other half of the sheet.
6. Roll across the width of the installed membrane sheet with a weighted roller (5 lb/LI) to ensure full contact with the substrate.
   NOTE: Do not roll membrane in place with a weighted roller if installed over GENFLEX HD ISO or GENFLEX CG ISO INSULATION boards.

Method of Application – Roof Edge Membrane Application

1. Unroll and align the EZ TPO Peel & Stick membrane into position along the roof edge and allow the membrane to relax for a minimum of 30 minutes (longer in colder weather). Consult GenFlex specifications and details for minimum roof edge overlap.
2. Carefully fold back the leading edge of the membrane minimum 10' (3.05 m) from one end to expose the release liner. Do not fold the length of the roll in half to remove the release liner.
3. Starting with the outside edge (roof edge portion) of the release liner, carefully peel the liner from the sheet, pulling it underneath the membrane toward the field of the roof at a 45° angle to expose the SA adhesive. Take care not to disturb the original positioning of the membrane.
4. Next, pull the remaining section of release liner (inside portion) underneath the membrane and toward the field of the roof at a 45° angle. Maintain a minimum 12" (305 mm) separation between the two sections of liner.
5. Expose minimum 10' (305 mm) of the adhesive backing at the end of the membrane sheet and back-roll the membrane onto the substrate. (Both sections of the removed release liner should extend beyond the field side of the membrane edge at a 45° angle.)
6. Keeping the EZ TPO Peel & Stick membrane flat, secured and in proper alignment, remove both sections of the release liner simultaneously at a 45° angle, keeping parallel to the roof surface along the entire length of the sheet. Pulling the release liner at an alternate angle may cause the sheet to move or may trap air. The roof edge side of the release liner should be pulled out in front of the field side of liner, maintaining a minimum 12″ (305 mm) of separation between the two sections. Each section of the release liner is to be removed simultaneously by two people. Keep the liner as close to the surface as possible during removal. Removal of the liner and handling of the exposed SA adhesive should be completed by two persons minimum.
7. To initiate adhesion, use a stiff bristled broom and apply downward pressure to broom in the installed membrane across the width of the sheet working from the center toward the edge. Repeat the process for the other half of the sheet.
8. Roll across the width of the installed membrane sheet with a weighted roller (5 lb/LI) to ensure full contact with the substrate.
   NOTE: Do not roll membrane in place with a weighted roller if installed over GENFLEX HD ISO or GENFLEX CG ISO INSULATION boards.

Membrane Seaming

Refer to the EZ TPO Application Guide for equipment set up, testing and heat welding of GenFlex EZ TPO Peel & Stick membrane seams.

Ensure proper welds are achieved. If welding problems occur validate the following:

- **Ensure the weld area is clean, dry, and free of contaminants prior to welding.**
- **If cleaning occurs completely dry area prior to welding.**
- **Perform test welds with scrap membrane to dial in the proper welding temperatures.**
- **Perform test welds prior to job start, after breaks in installation, and during temperature swings.**

! **NOTE: Once weld areas have cooled, validate weld is fully bonded and no gaps, fish mouths, pin holes or cold welds exist. Probe all welds to verify weld is completed properly.**

NOTE: It is important to verify that welds completed at any transition from machine to hand application is completed properly. Validate weld transition is fully bonded and no gaps, fish mouths, pin holes or cold welds exist. Probe all welds to verify weld is completed properly.

NOTE: Lap membrane to cover membrane printed areas (lap lines, fastener location marks and product identifications printing) whenever possible.

Seaming GenFlex EZ TPO Peel & Stick Membrane

1. Position adjoining sheets with selvedge edge to allow for a minimum 3" (76 mm) side overlap.
2. Using an approved robotic heat welding machine or hand-held heat welder and 1½" to 2" (38 mm to 51 mm) wide silicone hand roller, provide a continuous 1½" (38.1 mm) robotic weld or a 2" (51 mm) hand welded seam. Wherever possible, horizontal welds, including flashings, are to be completed with a robotic welder.
   NOTE: It is important to verify that welds completed at any transition from machine to hand application is completed properly. Validate weld transition is fully bonded and no gaps, fish mouths, pin holes or cold welds exist. Probe all welds to verify weld is completed properly.
3. EZ TPO Peel & Stick end laps are completed with a butt lap or a primed 2" (51 mm) overlap. A butt lap splice shall have no more than ½" (12.7 mm) gap between the sheet ends and be stripped in with an 8" (203 mm) reinforced, heat-welded 60 mil TPO membrane cover strip. Alternatively, a primed 2" (51 mm) overlap may be stripped in with either a welded cover strip or a section of 9.5" (241.3 mm) TPO Peel & Stick Flashing set in Clear Primer or Clear Primer LVOC. Refer to GenFlex Product Data Sheets and published details for additional information.
   NOTE: Clear Primer or Clear Primer LVOC is required in the lap wherever the adhesive backed EZ TPO Peel & Stick membrane laps onto itself.

Install T-Joint Patches

Apply TPO T-Joint Covers at all reinforced membrane seam intersections or wherever membrane seams extend through angle changes 1:12 or greater.

Seam Inspection and Cut Edge Sealant Application

1. Allow heat welds to cool, then probe all completed welds with a dull cotter pin puller type tool to verify seam integrity, paying special attention to robot starts and stops and hand welded areas. Any welds found to be insufficiently fused are to be repaired daily.
2. Any membrane edges with exposed scrim are to be cleaned with GenFlex Cleaner Product or All Purpose LVOC Cleaner and then treated with EZ TPO Clear Cut Edge Sealant or EZ TPO Clear Cut Edge Sealant LVOC .
3. When a repair requires a cover material larger than allowed for TPO Peel & Stick Flashing the area should be repaired using 60 mil EZ TPO Membrane (reinforced) membrane and hot air welding according to current GenFlex Repair Procedures.
4. Once the seams have been inspected and any necessary corrections made, apply EZ TPO Peel & Stick Clear Cut Edge Sealant to all cut edges with exposed reinforcement scrim.
   - If the seam area has become contaminated with dirt or debris, use a clean rag saturated with GenFlex Cleaner Product to clean the seam step off area. Change rags frequently to avoid depositing previously removed materials.
   - All EZ TPO Peel & Stick membrane cut edges with exposed reinforcement scrim, require an application of EZ TPO Clear Cut Edge Sealant by the end of the workday. Failure to seal the cut edge of the EZ TPO Peel & Stick membrane may allow moisture to wick into the scrim and result in a leak source.

Base Tie-In, Wall, and Curb Flashing

GenFlex offers several options for base tie-in and flashing on EZ TPO Peel & Stick installations. Consult the EZ TPO Peel & Stick Application Guide and standard details for additional information. An acceptable GenFlex primer (Clear Primer, Clear Primer LVOC, or GenFlex Quick Jet Adhesive) is required for vertical application of EZ TPO Peel & Stick membrane and wherever EZ TPO Peel & Stick membrane is lapped onto itself**.**

Base Tie-In and Vertical Flashing Using EZ TPO Peel & Stick membrane and TPO Peel & Stick Reinforced Perimeter Fastening Strip (RPS)

1. Before installing roof membrane, unroll and position the TPO Peel & Stick RPS strip on the substrate with the release paper facing up and the tape portion oriented away from the wall or curb.
2. Anchor the side of the TPO Peel & Stick RPS without tape to the roof deck or to the wall 12" (305 mm) o.c. using GenFlex 2” Plates and approved GenFlex fasteners, per current base tie-in details. Refer to published specifications for product selection and attachment requirements.
3. Position the EZ TPO Peel & Stick field panel with adequate seam overlap, allowing enough membrane to extend up the vertical surface. Fold the membrane back on itself to expose the wall or curb and RPS and apply primer to the vertical substrate and rear half of the RPS. Do not prime the splice between EZ TPO Peel & Stick membrane and RPS tape.
4. Proceed with installation of EZ TPO Peel & Stick membrane as described in the field membrane application section of this specification. Remove the release liner from the TPO Peel & Stick RPS before mating the membrane to the tape side of the RPS. Tuck the membrane carefully into the angle change then continue to roll the membrane up the wall. Broom the membrane into place with a stiff push broom then roll the vertical flashing to ensure permanent adhesion.

5. Roll the membrane over the RPS with a 1½" to 2" (38 mm to 51 mm) wide silicone roller or GenFlex QuickRoller, first along the backside of the RPS near the angle change, then over the tape at a right angle toward the outer tape edge, then along the length of the tape.
6. Complete vertical seams using a hand-held heat welder and 1½" to 2" (38 mm to 51 mm) wide silicone hand roller and install TPO T-Joint Covers wherever vertical splices extend through angle changes.
7. Follow procedure noted previously for seam inspection and apply TPO Peel & Stick Clear Cut Edge Sealant at all membrane edges with exposed reinforcement.

Clean Up

If required by the specifier to ensure the aesthetics of the GenFlex EZ TPO membrane, (i.e., handprints, footprints, general traffic grime, industrial pollutants, and environmental dirt), the membrane may be cleaned by scrubbing with non-abrasive soapy water and rinsing the area completely with clean water. GenFlex Cleaner Product can be used sparingly to clean small areas of membrane.

Cleaning Procedure for In-Service Thermoplastic Membrane

1. Ensure that the existing area to which new thermoplastic membrane is to be mated is clean, smooth, and free of all contaminants.
2. Thoroughly clean this area with detergent and water. It is recommended that a water-soluble granular cleaner be used such as T-M-T brand, which is manufactured by the U.S. Borax Company. Liquid cleaners tend to leave a film residue that can interfere with heat-weld quality. The cleaner must be completely rinsed/removed from areas where welding may occur and allowed to completely dry before any welding is performed.
3. It is recommended that a polypropylene scouring pad be used for maximum cleaning. This is the type manufactured by 3M. Coupled with the granular detergent it allows for enough abrasive action to thoroughly clean the sheet without causing damage to it.

> ! **NOTE: DO NOT USE STEEL WIRE BRUSHES UNDER ANY CIRCUMSTANCES.**

4. It is imperative that the area be thoroughly rinsed several times to remove all cleaner and contaminants before heat welding. Further, the area must be allowed to dry completely before continuing. If blisters form upon heat welding, the area has not been allowed to dry sufficiently and heat welding should discontinue.
5. After allowing to dry sufficiently, the heat-welding areas on the existing membrane shall be cleaned a second time with denatured alcohol and wiped clean with a clean cotton rag to remove all surface impediments and eliminate any surface curing which may have occurred.

> ! **AGAIN: THOROUGH CLEANING WITH DENATURED ALCOHOL IS THE MOST CRITICAL PROCEDURE TO ENSURE THE PERFORMANCE OF THE NEW TO EXISTING MEMBRANE HEAT-WELD.**

6. All heat welding shall be in accordance with GenFlex thermoplastic details and specifications as published. Keep in mind that the existing sheet is aged, which may call for more allowance. Care should be taken not to overheat and scorch either membrane.
7. Upon completion, allow newly welded seams to cool.

> ! **IMPORTANT: ALL WELDS MUST BE THOROUGHLY PROBED AND CHECKED FOR COMPLETE INTEGRITY AND REWELDED OR STRIPPED IN AS REQUIRED.**