



General Flashing Guidelines

On typical Impermitek systems, penetration and transition flashings are installed before the field areas of roofing, waterproofing, or traffic surfacing assemblies.

All Impermitek flashings are applied using the appropriate Impermitek resin and TekMat reinforcement as applicable in accordance with industry-accepted practice with a recommended 8 in (200 mm) minimum vertical height, or as otherwise allowed or recommended by Impermitek.

Flashings should never be applied over existing through-wall flashings, weep holes, or overflow scuppers and must be of sufficient height to accommodate the highest potential water level that could result from deluging rain or poor slope.

Flashing Reinforcement

All Impermitek waterproofing systems require reinforced flashings at transitions and penetrations applied using Impermitek resin with TekMat reinforcement. Impermitek's TekMat reinforcement enhances membrane durability, tear strength, puncture resistance, and crack bridging capabilities.

All Impermitek flashings are installed using TekMat 450, a proprietary 450 g/m² fiberglass chopped strand mat (CSM) reinforcement, with exception of certain expansion joint conditions.

NOTE: Impermitek's resins should NOT extend more than 1/8 in (3 mm) past edges of the TekMat reinforcement. Masking tape should always be used to achieve a straight and professional looking membrane edge and to avoid excess resin extending too far beyond the reinforcement.

Flashing Membrane

Application

Impermitek's flashings may be applied direct to deck over acceptable prepared substrates or over an appropriate SBS base ply in hybrid applications. Impermitek/SBS hybrid assemblies are preferred for all roofing and waterproofing applications other than traffic bearing waterproofing & surfacing systems, which must be applied directly to the structural deck. Flashings are typically installed running the length of roof edges, walls, and penetrations for standard height flashings. For high flashings at walls, parapets or steep slopes, it is recommended to run the TekMat reinforcement rows perpendicular to the wall or slope.

Prep: Apply masking tape to top edge termination and leading edge when Impermitek flashing is applied over an in-place membrane. Precut the

TekMat reinforcement as required prior to mixing and applying with the appropriate Impermitek resin. The TekMat reinforcement should conform to terminations, transitions and penetrations being flashed. Ensure a minimum 2 in (5 cm) overlap at side laps and extend flashing horizontally onto deck as indicated or required for specific conditions.

Mix: Thoroughly mix the entire drum of resin for 2-3 minutes before each use (and prior to pouring off resin into a second container if batch mixing) using a slowspeed mechanical mixer with spiral agitator or stirring stick using care not to aerate the resin. Catalyze only the amount of material that can be used within 10-15 minutes. Add the pre-measured catalyst to the resin component and stir for 2 minutes before applying to substrate. Impermitek's Catalyst addition is based on the weight or volume of resin being used and temperature.

Apply: After mixing, apply resin to clean, prepared, and primed substrate at the required consumption using Impermitek's approved rollers or brushes. Apply base coat of catalyzed Impermitek resin onto the substrate and immediately apply the TekMat reinforcement into the wet base using appropriate pressure, and then apply a resin topcoat fully encapsulating the reinforcement. Avoid any folds and wrinkles. **Note:** Impermitek's resins are applied at an approximate ratio of 2/3 : 1/3 basecoat and topcoat respectively.

Cure: Allow flashings to fully cure before applying the next Impermitek component. Changing project conditions should be monitored throughout the day to adjust catalyst ratios and cure time. At membrane tie-ins, clean cured resin with Impermitek Cleaner & Activator before continuing application of membrane.

NOTE: Refer to individual Impermitek resin Product Data Sheets and Safety Data Sheets (SDS) for storage, handling, precautions, application rates, catalyst addition, and cure times. Please refer to the relevant Safety Data Sheet (SDS) prior to handling or use. Use materials in strict accordance with published recommendations.

Common Penetration & Transition Flashings

Refer to Impermitek standard detail drawings for specific information and flashing requirements. Typically, the horizontal leg or deck flange for all Impermitek flashings on roofing, waterproofing, and surfacing applications should be 4 in (100 mm) minimum for overlapping by the field membrane when applied. When applied as flashings only for other roofing and waterproofing membranes, the overlap onto the membrane should be 8 in (200 mm) minimum.

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Unless otherwise noted, the following are requirements for common flashing conditions:

Walls, Curbs and Bases:

Wall, curb and base flashings should extend up and over tops of walls, curbs and bases wherever possible. All flashings should terminate into a reglet or be covered by an appropriate counterflashing.

Supports, Posts, Pipes, Conduits, & Unusual Shaped Penetrations:

Angles, I-beams, pipes, conduits and other similar items must be separated with 1 in (25 mm) minimum clearance or as required to adequately waterproof each individual penetration. All penetrations must be flashed individually, not be ganged together, using a reinforced vertical wrap finger flashing and deck target skirt applied with an appropriate Impermitek resin.

Warm/Hot Pipes, Stacks & Flues:

Impermitek components can withstand continuous service temperature from indirect heat sources up to 150°F (65.5°C). When flashing warm and/or hot pipes, stacks or flues with short-term, intermittent or continuous service temperatures above this limit, the flashing membrane must be applied to an intermediate "cool" sleeve insulated as required to keep contact surface temperatures at or below 150°F (65.5°C).

Sleeves should be fabricated using an acceptable thickness and type of sheet metal in the form of a tube or metal cone and flashed following recommended procedures for Impermitek pipe penetrations and capped with an appropriate independent metal rain hood secured to the pipe penetration.

Flexible Penetrations:

Flexible penetrations such as cables and braded wire should NOT be flashed directly with Impermitek flashings. Flexible penetrations should be installed through a weather-tight gooseneck conduit secured to the deck and flashed following recommended procedures for Impermitek pipe penetrations using a reinforced vertical wrap finger flashing and deck target skirt applied with an appropriate resin.

Drains:

Drain flashings should be applied using appropriate flashing with reinforced drain bowl flashing and deck target skirt. The drain bowl flashing should extend past the drain bowl (75 mm) and be covered by a skirt

extending minimum 12 in (300 mm) horizontally beyond the drain bowl sump. The flashing should not restrict or reduce the drain inlet in size.

Metal Gravel Stops, Drips and Base:

Metal gravel stops, drips, bases and other similar items must be flashed into Impermitek assemblies. All perimeter metal flashings should be adequately secured to the building structure in accordance with jurisdictional and building code requirements.

Metal trims and components should be fabricated from an acceptable metal type/thickness with 3-1/2 in (89 mm) minimum horizontal flanges prepared as per Impermitek's substrate preparation guidelines prior to installation, primed with the Metal Primer, installed over the in-place base-ply or field membrane, and then stripped in using 2-ply Impermitek reinforced membrane.

NOTE: All joints at overlaps and adjoining sections of metal components must be covered with an acceptable bond breaker tape and 2-ply of Impermitek reinforced membrane strips.

Impermitek GRP Trims:

GRP trim gravel stops, drips, bases and other similar items must be flashed into Impermitek assemblies.

The GRP trim should be installed over the in-place base-ply or field membrane, adequately secured to the building structure in accordance with jurisdictional and building code requirements, with the horizontal trim flanges stripped into the Impermitek resin field membrane using 2-ply reinforced membrane with a topcoat of Impermitek resin applied over the exposed face of the GRP trim.

NOTE: All joints at adjoining sections of GRP trim components must be covered with an acceptable bond breaker tape and Impermitek reinforced membrane strips.

Expansion Joints:

Impermitek's resins may be used to flash a variety of expansion joint conditions and configurations. All Impermitek expansion joints require minimum 2-ply of Impermitek resin reinforced membrane with an unadhered area minimum 5-times larger than then maximum anticipated joint expansion. Depending upon the joint configuration, the "free" membrane spanning joints can be achieved using an acceptable expansion tube, backer rod or bond breaker tape applied over and supported by an appropriate joint filler.

NOTE: Where specified or required by Impermitek, expansion joints should be flashed using Impermitek MMA resin, TekMat Fleece, and a proprietary 110g/m² polyester fabric reinforcement.

Non-standard Flashing Details:

When required, consult Impermitek for recommendations regarding acceptable flashing of non-standard conditions, penetrations or protrusions.

Flashings Subject to Vehicle Impact:

Impermitek flashings applied on curbs, walls and penetrations subject to mechanical damage from vehicles should be protected using metal bollards, stand-offs, steel plates, or other means as necessary.

Bonding/Alkalinity Protection Layer:

When asphalt paving, concrete, cement, or mortar setting beds will be installed directly over the membrane, Impermitek requires the application of a supplemental coat of ImpermiFinish resin as an alkalinity barrier. Where a mechanical key is required, apply a second coat of ImpermiFinish resin fully blinded with kiln-dried quartz silica to provide mechanical bonding and protection.

Allow resin bonding layer to cure, then remove excess unadhered aggregate using broom, vacuum or oil-free blower. The resin should be allowed a minimum of 6 hours cure before applying loading or overburden.

FiberLock Detailer

Application

Impermitek's FiberLock Detailer is a micro-fiber enhanced rapid-setting flashing resin used for waterproofing small and difficult penetrations where a standard liquid membrane would be difficult or impossible to apply. The FiberLock Detailer should NOT be used in locations where movement is anticipated.

Prep: Apply masking tape at top edge termination and the leading edge where the resin will be applied.

Mix: Thoroughly mix the entire drum of resin for 2-3 minutes before each use (and prior to pouring it off into a second container if batch mixing using a slow-speed mechanical mixer with spiral agitator or stirring stick using care not to aerate the resin. Catalyze only the amount of material that can be used within 10-15 minutes. Add the pre-measured catalyst to the resin component and stir for 2 minutes before applying to substrate. Impermitek's Catalyst addition is based on the weight or volume of resin being used and temperature.

Apply: After mixing, apply resin to clean, prepared, and primed substrate at the required consumption using Impermitek's approved rollers, brushes, or spatula at an appropriately 90 – 125 mil (2 – 3 mm) thickness in conjunction with fully reinforced membrane applications.

NOTE: Refer to the FiberLock Detailer Product Data Sheet (PDS) for storage, handling, precautions, application rates, catalyst addition, and cure times. Please refer to the relevant Safety Data Sheet (SDS) prior to handling or use. Use materials in strict accordance with published guidelines.

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 as a substitute 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.