

Introduction

Imperitek offers a variety of cold liquid-applied roofing, waterproofing, and surfacing systems to suit the technical demands and budgetary requirements of most projects. Due to the unique physical properties of Imperitek's components, they may be used in isolation for flashing and repairs, or in complete systems for roofs, waterproofing, balconies, plazas, parking decks and more.

Imperitek's systems are self-adhering, self-flashing, elastomeric, durable, and available in a variety of colors and texture finishes. In addition, Imperitek's systems are impervious to most chemicals, to ultraviolet degradation, root penetration, and biological deterioration.

Jurisdictional Building Codes, Regulations & Standards

Imperitek is a manufacturer of roofing, waterproofing and surfacing materials and does not practice architecture, engineering, or design consulting. The responsibility remains with the architect, engineer, qualified consultant, contractor, or owner to assure compliance with all applicable jurisdictional building codes, regulations and standards as well as to apply industry knowledge, good practice, and experience in selection, use, and application of Imperitek materials.

Material Ordering

It is important to accurately measure your project to determine the amounts of materials required. Material estimates should include all areas of work including flashing and perimeter details e.g., existing edge metal and flashing components.

Imperitek assumes no responsibility for the use of this information. The installer is solely responsible for calculation and estimation of materials for bid, ordering, or construction purposes. Material estimating tools, consumption information and published yields provided on product data sheets (PDS) and technical data sheets (TDS) by Imperitek are provided in good faith based on theoretical coverages for specific applications. Allowances must be made for uneven, rough, or porous substrates, overlaps, waste and other job-site conditions that may impact materials consumption. Tools, freight, permits, taxes, licenses, etc. are the installers' responsibility.

Material Delivery, Storage, & Handling

Imperitek's products and components should be delivered to the project site and stored in their unopened, original packaging. Refer to individual Product Data Sheets and Safety Data Sheets (SDS) for storage, handling, related hazards, and precautions related to necessary storage and handling requirements.

Imperitek's materials should be protected and stored in a dry, well-vented, and weatherproof location out of direct sunlight. Care should be taken to store Imperitek's TekMat on-end sufficiently elevated to protect from contact with water and other contaminants. Only materials to be used the same day should be removed from the designated storage location.

NOTE: Imperitek's Catalyst Powder is heat sensitive and should be stored under controlled conditions to ensure that the reactivity/effectiveness is not compromised as well as for safety reasons. The Catalyst Powder should not be exposed to temperatures above 122°F (50°C) as it may experience hazardous self-accelerating decomposition (signaled by the presence of bright white smoke), depending on the environmental conditions and quantity of product.

Materials stored outdoors at jobsites should be placed away from standing water and stacked on raised pallets or dunnage, at least 4 in (100 mm) or more above ground level. Carefully cover stored materials with "breathable" tarpaulins to protect and prevent exposure to precipitation, condensation, and sunlight.

Imperitek's materials should not be stored in quantities that will exceed structural loading capacities, damage the substrate, hinder installation, or restrict drainage. Any damaged materials must be replaced with new, suitable materials.

Health & Safety Considerations

Imperitek's components and systems are not for consumer's use and should only be installed by authorized professional trained installers. The contractor is responsible for complying with all project-related safety and environmental requirements.

Before handling Imperitek's materials, review related product Safety Data Sheets (SDS) for health, safety, and environment related hazards, and take all measures and precautions to comply with exposure requirements.

Copies of Safety Data Sheets (SDS) and Product Data Sheets (PDS) for applicable Impermitek components or materials must be kept on site and be readily available. Provide all workers with appropriate safety information, training, and personal protective equipment as required for each specific material to be handled and/or used.

Odor Control

Impermitek's materials, like most other liquid applied membranes, produce an odor during and, for a limited period, after the installation. When used as instructed in external areas, the compounds that cause odors will be far below recommended occupational exposure limits.

Information over odor expectation should be relayed to all project stakeholders before application begins. Contact Impermitek for further guidance regarding client communications regarding odor, if needed.

Where required by the owner or owner's designated representative, implement odor control and elimination measures before mixing and applying any Impermitek materials. Odor control measures should be field tested during off-hours and typically consist of one or more of the following measures:

- Cover air intakes with activated carbon filters and seal open construction joints against building exterior walls and penetrations to prevent leakage of unfiltered air or heavier than air vapors into occupied spaces.
- Use of movable enclosures sized to accommodate work areas and resin mixing station equipped with odor control measures as required to prevent odor migration outside the enclosure when or where required.

NOTE: During and after application of Impermitek's resin components, odors from the curing system may be carried downwind. Contact Impermitek regarding low odor material alternatives for odor sensitive projects and applications.

Typical Installation & Staging

In typical applications the substrate is prepared, primed, and flashings are installed. This is then followed by the application of the field membrane, mortar, surfacing and/or finishes as specified or required.

NOTE: When applying broadcast aggregate, the aggregate should not be left exposed to the elements and therefore must be top coated with Impermitek finish on the same day, whenever possible.

Weather & Environmental Considerations

Prior to and during applications, monitor ambient and material temperatures as well as environmental factors such as forecast precipitation, sun, cloud cover, shade, wind, humidity, and dew point. Ensure conditions are satisfactory to begin work and that they remain satisfactory during the installation of specified Impermitek components.

Materials and methods should be adjusted as necessary to accommodate varying project conditions.

Most Impermitek resins may be applied while ambient temperatures remain 5°F (3°C) above the dew point and air temperatures are between 34°F (1°C) to 95°F (35°C). For SlowCure Grade resins, the ambient temperature should be between 41°F (5°C) and 113°F (45°C). Refer to individual Product Data Sheets (PDS) for specific product environmental restrictions, recommendations, and requirements.

Impermitek materials cannot be installed when conditions are unacceptable. Components must not be applied during rainfall or during forecast or periods of any other form of precipitation, including dew, mist, fog, snowfall, sleet, or hail. If precipitation is known to be imminent the application should be rescheduled.

Weather Delays & Work Interruptions

There may be delays with the application due to inclement and/or extreme cold or hot weather, or other unexpected circumstances. After any extended delay the application can proceed, providing the substrate surfaces are clean and dry and recommended overcoating windows have been exceeded.

If rain or other precipitation occurs during installation, all work should be stopped. Once the weather is clear, all surfaces must be dried off prior to resuming application. For reinforced membrane applications, if rain or precipitation affects a wet basecoat, check for any "pock marks" resulting from water accumulation and sand them down before applying the resin topcoat. If rain interrupts a topcoat application, it will be necessary to sand back affected areas and reapply the topcoat.

Impermitek recommends all system components to be applied by section on the same day, or as soon as possible after commence - up to a maximum of 7 days.

For work interruptions of 12 hours or more, use Impermitek Cleaner to clean and prepare applied primer, resin mortar, flashing or field membrane transition areas. The Cleaner

should be allowed a minimum of 20 minutes' evaporation time after application, and covered within 60 minutes of cleaning.

After 7 days the overcoating time is exceeded and Impermitek will require wiping down the in-place component with Impermitek Cleaner and re-application of the primer component.

Refer to individual Product Data Sheets (PDS) for specific product guidelines or requirements for next layer application and special instructions or requirements where the maximum overcoating time is exceeded.

General Substrate Requirements

The contractor must evaluate jobsite conditions to determine suitability for Impermitek application, assuring substrates are compatible, secure, and structurally sound.

Refer to Impermitek “**TDS SC103 Application & Quality Control Guidelines**”. After completing any necessary surface preparation, check to see that all substrates are clean, dust free, dry, and in accordance with Impermitek substrate preparation guidelines before application of any Impermitek materials.

Masking & Protection

Impermitek products are liquid applied resins. Protect adjacent building surfaces from stains and/or spills during application by use of tarps, masking, or other protective measures. When working on membrane terminations, masking tape should be used to provide clean lines at membrane edges and protect areas adjacent to work. **NOTE:** All tape and masking MUST be removed while resins are wet.

Resin Components & Batch Mixing

Impermitek components are generally packaged and applied using liquid volumes and in some cases, by product weight. Refer to individual Product Data Sheets (PDS) for specific product packaging, recommended uses, limitations, coverage rates, weather additives, and catalyzation.

For your convenience, Impermitek products measured by liquid volumes, coverage and consumption rates are typically provided in both gallon per square foot (gal/ft²) and liter per square meter (L/m²).

For jobsite batch mixing when required,

Impermitek components can be reliably measured using sturdy, solvent resistant clear plastic mixing containers calibrated for measuring in liters or gallons.



For Impermitek resins and components packaged or referenced by product weight, coverage and consumption rates for these products are also provided in kilograms per square foot (kg/ft²) and kilograms per square meter (kg/m²).



For jobsite batch mixing by weight, Impermitek components can be measured using any weight scale capable of reading grams/kilograms.

NOTE: When batch mixing Impermitek resin components is required, be sure to incorporate any needed weather additives and thoroughly mix the entire drum of resin for 2-3 minutes prior to pouring off into secondary containers or adding Impermitek catalysts were required.

Disposable Tool Use & Consumption

Brushes and roller knaps are consumable items and must be discarded once they have stiffened. Consumption of brushes and rollers will vary depending upon temperature and the type of resin being used. For prolonged roller life, roll naps dry on a clean piece of cardboard. Eventually the roller nap will harden as resin begins to cure, requiring replacement.

Roller handles and metal tools may be cleaned with Impermitek Cleaner. To minimize cleaning, wipe re-useable handles and tools with clean, dry rags as needed before resin components cure and schedule work to avoid stoppages.

Application Quality Control

Impermitek's systems, as with other liquid applied membranes and coatings, require monitoring of environmental variables along with making determinations of substrate bond strength and moisture content periodically by the contractor throughout the course of work. Refer to Impermitek “**TDS SC103 Application & Quality Control Guidelines**” for complete information and guidance.

Clean-Up & Disposal

Remove all the masking, protection, equipment, materials, and debris from the work and storage areas and leave those areas in undamaged and acceptable condition.

Cured Impermitek components become inert and may be disposed of in standard landfills. Before disposal, thoroughly mix all leftover components waste components, empty product containers, and mixing buckets with catalyzed resin and allow time to fully harden. Note that hazardous labels markings on empty product containers with fully cured residue no longer apply, and may be removed or covered to eliminate confusion during disposal.

All Impermitek materials and debris must be handled as required in individual product SDS and disposed of in accordance with local, state, and federal regulations.

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 Impermitek warranty which takes effect only when issued in writing by Impermitek to the customer. Specimen warranties are available on request.

Completed Work Protection

Protect installed components and finished work from all other contractors and activities during installation and after completion. Any damage to the system must be repaired as needed or as recommended by Impermitek prior to warranty issuance.

DISCLAIMER

The purpose of this Guide is to provide fundamental information and important 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.