

## Product Description

The Kingspan LVOC Sprayable Bonding Adhesive is a low-VOC, synthetic, polymer-based pressurized canister membrane adhesive for adhering Kingspan TPO membranes and flashings to Kingspan ISO GF and ISO CG insulations, Kingspan ISO HD CG and DensDeck cover boards, and other approved substrates including gypsum and concrete. The Kingspan LVOC Sprayable Bonding Adhesive is applied in a double-sided application for membrane attachment with adhesive applied to both the substrate and membrane.

It may also be used as a primer for Kingspan Vapor Barrier SAR membrane in a single-sided application applied to the receiving surface.



## Manufactured in the U.S.A.

The Kingspan LVOC Sprayable Bonding Adhesive is manufactured in the U.S.A. with globally sourced materials.



## Features & Benefits

- **Faster membrane and flashing installation** with quicker flash off time (typically 4-8 minutes) than standard dip and roll adhesive.
- **Low VOC formulation** approved for use in all U.S. jurisdictions that limit VOC content of single-ply roofing adhesive to 250 g/L or less, including California's South Coast Air Quality Management Districts.
- **Great Coverage Rates:** up to 1,000 sq. ft. per canister for double-sided horizontal application - 10 completed squares including application to both membrane and substrate. For vertical application, the double-sided cover rate is 750 sq. ft. per canister or 7.5 completed squares. For primer application for Kingspan Vapor Barrier SAR, the coverage rate is 2,000 sq. ft. for single-sided application.
- **Provides quick and easy rooftop maneuverability** with single canister.
- **Turn-Key Solution:** quick rooftop setup with no equipment needed. Accessory options help maximize rooftop efficiency including spray applicators (standard and with an extension), replacement spray tips, canister flush cleaner, and

connecting hoses (6 ft., 12 ft., or 18 ft. in length). Accessories are sold separately.

- **Low-Temperature Application:** apply when ambient temperatures are 25°F and rising.
- **Multiple Rooftop Uses:** in addition to serving as a membrane adhesive, it can also be used as a primer for Kingspan Vapor Barrier SAR.
- **Re-sealable Canister** allows installers to take it from job to job.
- **FM wind uplift and UL fire performance listings.**



## Safety Precautions

- Use proper equipment and assistance when moving, lifting, handling, or transporting to avoid personal injury as well as to avoid damaging the material.
- Wear personal protective equipment during application and reference the Safety Data Sheet for additional information.

## Set Up

- **Prior to Setup:** Always dispense Kingspan LVOC Sprayable Bonding Adhesive in a well-ventilated area while wearing appropriate personal protective equipment (PPE). The use of third-party dispensing equipment is not permitted. Install at ambient temperatures of 25°F and rising. Do not apply when dew point is within 10°F of ambient temperature. Kingspan LVOC Sprayable Bonding Adhesive must be great than 70°F at time of application. Wind Conditions: Do not apply adhesive in wind conditions exceeding 15 mph or when a flag is extended straight out. In winds below 15 mph, a wind barrier may be necessary to preserve the integrity of the fan spray pattern.
- **Initial Spray Gun Setup:** Before using the spray gun for the first time, remove the retaining cap and spray tip. Check that the valve seat is installed with the larger end facing the spray tip. Reattach the spray tip and retaining cap, then squeeze and release the trigger five times to seat the valve stem properly. This ensures accurate on / off control.
- **Hose Connections:** Attach the hose to the spray gun and securely tighten the fitting using a wrench. Connect the other end of the hose to the outlet of the Kingspan LVOC Sprayable Bonding Adhesive canister and tighten with a wrench. Be careful not to cross-thread the fittings.
- **Opening the Canister:** Fully open the canister valve and inspect all connections for leaks. Tighten any loose fittings if needed.
- **Valve Usage Warning:** Once the valve is opened, do not close it until the cylinder is empty or the hose and spray gun are being removed and cleaned. Refer to the Kingspan Application Guide for detailed cleaning procedures.
- **Canister Preparation:** Shake the Kingspan LVOC Sprayable Bonding Adhesive canister for 30 seconds before use. Continue to shake it occasionally during use to maintain pressure and achieve an optimal spray pattern.

## Application

- Before applying Kingspan LVOC Sprayable Bonding Adhesive, ensure the applied surface is free of dirt, dust, or other contaminants. Do not allow the adhesive to come into contact with asphalt surfaces.
- Apply Kingspan LVOC Sprayable Bonding Adhesive to both the underside of the membrane and the mating substrate at the same time to ensure the same drying time. Apply adhesive in a back-and-forth motion with 50% overlap from each previous pass. Do not apply adhesive near seams where a hot-air welder will be used.
- Allow the Kingspan LVOC Sprayable Bonding Adhesive to flash off until it becomes tacky to the touch. To test this, press a clean, dry finger straight down on the adhesive. If it doesn't string when the finger is lifted, it's tacky. Also, slide your finger forward at an angle to check that the adhesive has fully flashed off. If either test shows stringing or wetness, the adhesive isn't ready. Flash-off time will vary depending on ambient conditions but is typically 4-8 minutes.
- Once the adhesive is ready, carefully roll the adhesive-coated membrane onto the adhesive-covered substrate, doing so slowly and evenly to maintain alignment and avoid wrinkles.
- To ensure strong membrane-to-substrate adhesion, immediately broom the bonded membrane with firm pressure using a stiff push broom followed by a roller.
- **Spray Gun Safety:** If the spray gun has a trigger lock, make sure it is engaged when the gun is not in use to prevent accidental spraying.
- **Further Guidance:** Always refer to the Kingspan Application Guide for detailed application procedures and best practices.

## Storage

- Store the Kingspan LVOC Sprayable Bonding Adhesive indoors and away from direct exposure to sunlight.
- From the date of manufacture, a shelf life of 12 months can be expected when stored in its original packaging and in a temperature-controlled environment between 60°F and 80°F. Bring canister to 70°F before application and do not allow canister temperature to exceed 110°F.
- Reference the Safety Data Sheet for additional information.

## Typical Properties

Ordering SKU	Material	Color	Horizontal Coverage Rate	Vertical Coverage Rate	Primer Application Coverage Rate	VOC Content	Shelf Life
600000001041	Synthetic Polymers	Clear to light yellow	1,000 sq. ft. per canister (10 completed squares)	750 sq. ft. per canister (7.5 completed squares)	2,000 sq. ft. per canister (single-sided application)	< 250 g/L	12 months

## Packaging Information

Size	Weight
Canister	45 lbs. (20.5 kg)

## Accessories Ordering SKU Information

Ordering SKU	Product
600000001049	Kingspan TPO Sprayable Bonding Adhesive Applicator Replacement Tips 5ct
600000001352	Kingspan TPO Sprayable Bonding Adhesive Hose 6 ft.
600000001353	Kingspan TPO Sprayable Bonding Adhesive Hose 12 ft.
600000001355	Kingspan TPO Sprayable Bonding Adhesive Hose 18 ft.
600000001046	Kingspan TPO Sprayable Bonding Adhesive Applicator (no extension)
600000001047	Kingspan TPO Sprayable Bonding Adhesive Applicator (18 in. extension)
600000001050	Kingspan TPO Sprayable Bonding Adhesive LVOC Canister Flush

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