

Technical Bulletin

**To: Elevate Applicators
Elevate Distributors
Elevate Sales Representatives**

November 2025

Re: Cold Weather Application Guidelines 2025-2026

Cold temperatures change the physical properties of adhesives, sealants, primers, and coatings, and alter the handling characteristics of roofing membranes due to increased rigidity. The information in this Bulletin is intended to help installers successfully apply Elevate materials in cold weather. Elevate recommends cold weather application procedures be used when ambient and substrate conditions fall below 40 °F (4 °C). Refer to applicable Technical Information Sheets (TIS) for specific storage, handling, and application recommendations.

Adhesives, Sealants, Primers, and Coatings

STORAGE

- Store all adhesives, sealants, primers, and coatings between 60 °F (16 °C) and 80 °F (27 °C) until just prior to application to ensure proper mixing and dispensing of the products, and to promote appropriate application rates.
- If the properties and application characteristics of the materials begin to change during cold weather application, restore them to room temperature before continuing. Materials stored below 60 °F (16 °C) must be brought to room temperature, thoroughly mixed, and examined to verify proper consistency (no marbling or separation of components) prior to application. **NOTE: Never mix EPDM Solvent-Free Bonding Adhesive.**

MIXING AND DISPENSING

When liquid materials are cold, their viscosity increases which may cause solvents and solids to separate. This separation can make mixing and dispensing difficult. To minimize the potential for materials cooling on the roof before application, follow these additional guidelines:

- Only bring materials from warm storage to the roof 1 to 4 hours prior to application, or as necessary to ensure materials are close to 60 °F (16 °C) when dispensed.
- Always thoroughly mix adhesives, primers, and coatings to a smooth, uniform state before and during use. Follow mixing instructions provided with each product. Do not use mixing equipment that could generate a spark, which could ignite flammable material. **NOTE: Never mix EPDM Solvent-Free Bonding Adhesive.**
- In extreme conditions, it may be necessary during application to rotate material between a hot box or warm storage area and the roof to maintain the appropriate application temperature.

APPLICATION

- Drying times depend on ambient conditions. Cool and overcast conditions lengthen open times (“tack times”), while sunny and dry conditions shorten open times. Expect and plan for longer open times in cold weather prior to adhering insulation or membrane.
- Blisters may occur when membranes are installed using solvent-based adhesives or primers that have not sufficiently dried. Conduct “touch-push” tests in areas with the heaviest application of adhesive or primer, using a clean finger and adequate pressure to verify solvents have flashed-off. A false reading may be given if a “touch-push” test is not performed properly in cold weather. Additionally, some products’ readiness may not be verified by a touch-push test but should be determined instead by the specific open times for those products. Refer to the Elevate website for current TIS and application instructions for each product.
- Follow all local air quality management requirements when installing products containing Volatile Organic Compounds (VOCs).

SOLVENT EVAPORATION RATES

The table below shows various flash-off times associated with solvent components of Elevate adhesives, sealants, and primers. Products may contain one or more of the solvents listed below. Because the ratios of solvents in each product vary, a definitive flash-off time for each product cannot be assigned. Reference the specific product’s Safety Data Sheet (SDS) for chemical components and compare that information to the table below for an indication of relative flash-off efficiency. Ambient conditions will affect flash-off times, but the effects are proportional.

Solvent	VOC Exemption	Evaporation Rate*	Relative Flash-off
Water	VOC Exempt	0.3	Extremely Slow
PCBTF	VOC Exempt	0.9	Slow
Naphtha	Not VOC Exempt	1.4	Medium
Toluene	Not VOC Exempt	2.2	Medium
TBAc	VOC Exempt (except for applicable CA Air Quality Districts)	2.8	Medium
Acetone	VOC Exempt	5.6	Fast
Hexane	Not VOC Exempt	8.3	Extremely Fast

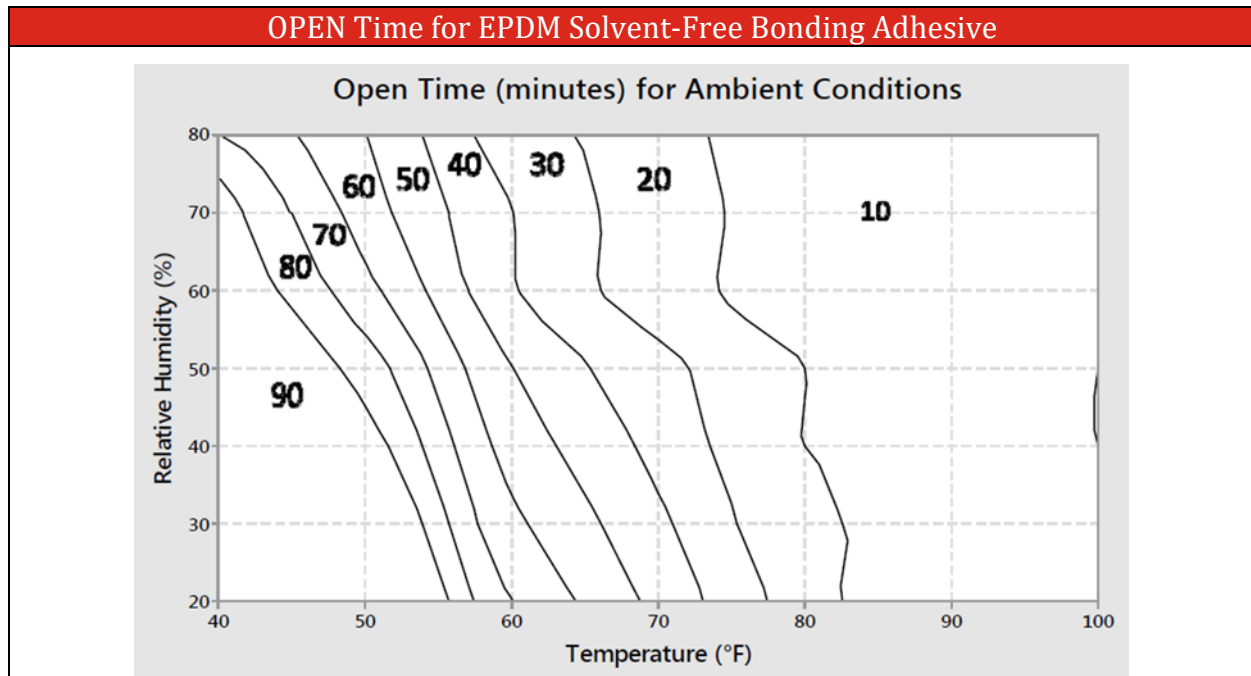
*The standard reference for Evaporation Rate is n-butyl acetate with an evaporation rate of 1.0.

ADHESIVE “BLUSHING” (CONDENSATION)

- Blushing occurs when the evaporative cooling of the material during dry time lowers the surface temperature at or below the dew point, resulting in condensation on adhesive and primer films. This condensation prevents proper adhesion. Discontinue application immediately if blushing occurs.
- The use of adhesives and primers should be closely monitored for blushing when the ambient temperature is close to the dew point. The gap between the ambient temperature and the dew point is typically narrower in early morning and late afternoon, so midday is often the optimal time to use adhesives and primers when applying Elevate products in cold weather conditions. Greater exposure to sunlight at any time of day decreases the risk of blushing.

EPDM SOLVENT-FREE BONDING ADHESIVE (SFBA)

- Store containers of SFBA at temperatures between 60 °F and 80 °F (16 °C and 27 °C) until ready for use. **DO NOT allow product to freeze.**
- Only use SFBA when ambient and substrate temperatures exceed 40 °F (4 °C). If SFBA is exposed to temperatures below 40 °F (4 °C), restore it to room temperature before use. Do not use when temperatures are expected to fall below freezing within 12 hours after application.
- **Do not mix or agitate SFBA prior to installation.** Remove any skin coat that may develop in the container to expose fresh adhesive for application.
- Conduct “touch-push” tests in areas with the heaviest application of SFBA and use adequate pressure to verify that sufficient open time has occurred to initiate curing of the adhesive. Compared to standard EPDM Bonding Adhesive, SFBA should be slightly easier to push with the finger when it is ready to bond to the membrane.
- **Although SFBA does not contain solvents, the adhesive must achieve its optimal open time to set up prior to bonding to the roofing membrane.** See chart below for the approximate open times for SFBA when the ambient relative humidity and temperature are known.



I.S.O. STICK™ INSULATION ADHESIVE (WINTER GRADE)

- Consider using I.S.O. Stick Insulation Adhesive Winter Grade during cold weather if project specification permits. The Winter Grade formula may be used when ambient and substrate temperatures range from 25 °F to 65 °F (-3 °C to 18 °C).
- Store I.S.O. Stick Winter Grade and PaceCart™ dispenser between 60 °F to 80 °F (16 °C to 27 °C) until just prior to use. Return any unused I.S.O. Stick and dispensing equipment to warm storage if not used within four hours and allow product and equipment to return to 60 °F to 80 °F (16 °C to 27 °C) until just prior to use. See TIS 837 for full storage, handling, and application requirements.

I.S.O. TWIN PACK™ ADHESIVE

- Where product specifications allow, use I.S.O. Twin Pack Insulation Adhesive when ambient and substrate temperatures are at least 20 °F (-7 °C) and rising. Ensure all surfaces to receive I.S.O. Twin Pack are completely clean, dry, and free of frost.
- Store I.S.O. Twin Pack and dispensing equipment (TIS 1519 and TIS 1520) between 60 °F to 80 °F (16 °C to 27 °C) until just prior to use. Return any unused I.S.O. Twin Pack cartridges and dispensing equipment to warm storage if not used within four hours and allow product and equipment to return to 60 °F to 80 °F (16 °C to 27 °C) until just prior to use. See TIS 812 for full storage, handling, and application requirements.

ELEVATE PVC, ELEVATE PVC KEE AND ELEVATE MAX PVC ADHESIVES

- The consistencies of adhesives and sealants thicken as temperatures drop. To minimize this consequence:
 - Complete test areas to determine whether conditions will cause problems such as condensation with the application of the materials.
 - Discontinue application when material becomes too thick to apply properly.
 - If using Elevate PVC Water Based Bonding Adhesive, ambient and substrate temperatures must be at least 50 °F (10 °C) and rising during application and remain at this temperature for 48 hours after. Expect longer drying times during lower temperatures or higher humidity.
 - Jet Bond PVC Spray Adhesive may be used at 35 °F (1.6 °C) and rising. **NOTE : Jet Bond PVC Spray Adhesive may be used with Elevate PVC and Elevate MAX PVC membranes ONLY. Jet Bond PVC Spray Adhesive is not compatible with Elevate PVC KEE or Elevate XR membranes.**

Barriers and Underlayments

VAPOR BARRIERS

- V-Force™ Vapor Barrier Membrane may be applied when substrate and ambient temperatures are 25 °F (-4 °C) or higher provided the V-Force has been stored between 50 °F and 100 °F (10 °C and 38 °C) prior to application.
- V-Force FR Air and Vapor Barrier Membrane may be applied without the use of a primer when ambient temperatures are 20 °F (-6.6 °C). Cold weather may affect the adhesion properties of the membrane adhesive. It is always recommended to conduct field adhesion testing separately or in conjunction with mock-up construction on the job site. Primers can improve adhesion to substrates in these conditions.
- Refer to the intended primer's TIS for storage and application instructions, and limitations, if applicable.

UNDERLAYMENTS

- Underlayments should be stored out of the weather in a clean, dry area in original, unopened packaging.
- CLAD-GARD™ R has a minimum temperature of 40 °F (4 °C) at the time of application.
- CLAD-GARD SA has a minimum temperature of 40 °F (4 °C) or 50 °F (10 °C) at the time of application, depending on region (North or South).

Roofing Membranes and Flashings

MEMBRANE PREPARATION

- Store roofing membranes in a clean, dry location out of direct sunlight, and away from sources of punctures or other physical damage.
- Prior to installation, unroll membranes and allow them to relax for 30 to 60 minutes.
- The use of no-fold panels in cold weather is highly recommended. Folded membrane panels become more difficult to relax and install in cold weather, especially in adhered applications.

ULTRAPLY™ TPO, ELEVATE PVC AND PVC KEE, AND ELEVATE MAX PVC INSTALLATION

- Rigidity of thermoplastic membranes increases in cold temperatures. To help membranes relax, early on the day of installation, remove the outer wrapping and leave the roll in the sunlight as long as possible. This will enable the darker bottom ply of the membrane to absorb as much heat as possible and increase the membrane's flexibility.
- To ensure seams are properly welded, it is critical that test welds are completed:
 - At daily start-up
 - When ambient conditions change
 - When welding stops for a significant period of time (e.g., lunch breaks)
- When using a hand welder, test welds should be performed on scrap membrane or unsupported flashing material to ensure the operator is using the proper technique and temperature setting.

JET BOND SPRAY ADHESIVE

- Jet Bond Spray Adhesive should be stored to maintain the desired product temperature of 70 °F (21 °C).
- Apply only when substrate and ambient temperatures are 25 °F (-4 °C) and rising.
- Do not apply when wind speeds are 15 mph or higher.

TWIN JET AND TWIN JET Y SPRAY ADHESIVES

- Use Elevate Twin Jet (TIS 836A) only when substrate and ambient temperatures are at least 40 °F (4 °C) and rising. Keep Twin Jet canisters and spray equipment at least 60 °F (16 °C) until just prior to use.
- Elevate Twin Jet Y (TIS 836B) may be used when substrate and ambient temperatures are at least 30 °F (-1 °C) and rising. Keep canisters and spray equipment at least 70 °F (16 °C) until just prior to use.
- Do not apply Twin Jet or Twin Jet Y when wind speeds are 15 mph or higher.

I.S.O. TWIN PACK™ AND I.S.O. SPRAY™ R

- I.S.O. Twin Pack and I.S.O. Spray R should be stored to maintain the desired product temperature between 60 °F (16 °C) and 80 °F (27 °C).
- Apply I.S.O. Twin Pack only when substrate and ambient temperatures are 20 °F (-7 °C) and rising.
- Apply I.S.O. SPRAY R only when substrate and ambient temperatures are 25 °F (-4 °C) and rising.
- Do not attempt application during unfavorable conditions.

RUBBERGARD™ EPDM SA AND ULTRAPLY TPO SA INSTALLATION

- Store EPDM SA and TPO SA in a clean, dry location, and keep dry prior to installation.
- EPDM SA and TPO SA may be installed when ambient and substrate temperatures exceed 20 °F (-7 °C).
- Always observe cold weather guidelines when applying primers.

INVISIWELD™ APPLICATIONS (ULTRAPLY TPO, ELEVATE PVC and PVC KEE, AND ELEVATE MAX PVC)

- The minimum safe application temperature for induction welding of Elevate thermoplastic membranes to InvisiWeld or InvisiWeld-S plates is 0 °F (-18 °C).
- Before induction welding with the appropriate tool, ensure there is no moisture or condensation present on the top surface of the plate or on the bottom surface of the roofing membrane. Moisture will affect the ability of the induction tool to weld and may result in partial or incomplete welds.
- Always follow the induction tool manufacturer's guidelines for calibration and use of the tool in cold temperatures. In general, the tool must be calibrated regularly, in real time, **ON-SITE**, using materials (membrane and plates) in the same temperature conditions as the jobsite materials.

EPDM FLASHING INSTALLATION

- Uncured EPDM flashing products (both standard and RubberGard EcoWhite™ EPDM) are designed to be formable, but cold weather may require supplemental warming with a heat gun.
- Ambient conditions (sunlight, wind, and temperature) and flashing color will determine the need for supplemental heat. Typically, temperatures below 60 °F (16 °C) may require the use of additional heat to ensure the formability of uncured flashing products.
- Keep heat guns and other potential ignition sources away from cleaners, primers, adhesives, or other flammable materials.

AC FAST FR PMMA LIQUID-APPLIED MEMBRANE FLASHING

- Elevate AC Fast FR PMMA should be stored between 50 °F to 80 °F (10 °C to 27 °C) in a controlled environment to facilitate mixing and fleece saturation. For best use, 24 hours before application, the material is to be acclimated at temperatures between 65 °F – 70 °F (18 °C – 21 °C). DO NOT store materials outside in cold weather as the cooled materials will be difficult to mix and apply due to their thick consistency.
- Do not attempt to mix or apply unless ambient and substrate temperatures are at least 35 °F (2 °C) and rising, and materials have been properly stored until just prior to use. The required quantity of AC Catalyst Powder and cure times are dependent upon the ambient temperature. Follow mixing instructions closely.

SBS, APP AND BUR INSTALLATION

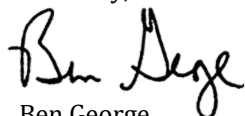
- Store SBS and APP modified bitumen rolls and BUR ply felts between 50 °F and 100 °F (10 °C and 38 °C) and install only when ambient and substrate temperatures are 40 °F (4 °C) and rising. Where project characteristics allow, torch-applied membranes are strongly recommended for cold weather applications.
- Materials must be used within 4 hours of removal from a heated storage area. Materials that are not used within 4 hours must be returned to a heated storage area until they return to a temperature between 50 °F to 100 °F (10 °C and 38 °C), which typically takes 24 hours.
- Hot Asphalt
 - Cold substrates can rapidly cool mopped asphalt. Asphalt cools and thickens more quickly at low temperatures, which may cause application rates to be less uniform.
 - All handling equipment should be insulated to minimize drops in asphalt temperature prior to or during application.
 - Maintain a temperature in the kettle within the asphalt manufacturer's published equiviscous temperature (EVT) range, but hot enough to ensure a *minimum* application temperature at the mopping point of 420 °F (216 °C).
 - **Do not overheat asphalt to compensate for cold weather conditions or allow the temperature to exceed the asphalt manufacturer's EVT or its flash point.**

MULTI-PURPOSE MB COLD ADHESIVE AND FLASHING CEMENT

- Store Multi-Purpose MB Cold Adhesive and Multi-Purpose MB Flashing Cement between 60 °F to 80 °F (16 °C and 27 °C) in their original, unopened containers.
- Multi-Purpose MB Cold Adhesive is best applied with a heated spray rig in cold weather. Squeegee-applied Cold Adhesive is not recommended during cold weather.
- Multi-Purpose MB Cold Adhesive and Multi-Purpose MB Flashing Cement should only be used when ambient and substrate temperatures are 40 °F (4 °C) and rising.

For additional information or assistance, please contact Elevate Technical Services on 800-428-4511, or visit our website: www.elevatecommercialbp.com.

Sincerely,



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