

CAV-GRIP III Low-VOC Adhesive/Primer



Overview

Carlisle's CAV-GRIP III Low-VOC Aerosol Contact Adhesive/Primer can be used for a variety of applications: adhering FleeceBACK®, standard Sure-Weld® TPO, and Sure-Seal® EPDM membrane to vertical walls, enhancing the bond between Carlisle's VapAir Seal™ 725TR and various substrates, and priming unexposed asphalt prior to applying FAST™ Adhesive for insulation attachment. CAV-GRIP III can also be used with standard TPO and EPDM membranes as a substrate adhesive on horizontal surfaces. CAV-GRIP III EC cylinders meet the requirements for pressurized cylinders in Canada and the European Union. The below features, benefits, installation, storage, and precaution criteria also apply to CAV-GRIP III EC cylinders.

CAV-GRIP III's Low-VOC, methylene chloride-free formula promotes tenacious adhesion and quick drying in a wide range of temperatures. Applied using a self-contained spray system that provides quick and even coverage, this system requires minimal cleanup or maintenance. **Please note: cylinder, hoses, and gun are each sold separately.**

Productivity Boosting Features and Benefits:

- » Quick application with spray gun
- » Fast tack time (less than 5 minutes)
- » No stirring
- » Up to 60% labor savings compared to traditional bonding adhesive



Features and Benefits

- » Excellent option for adhering TPO and EPDM to horizontal and vertical surfaces and all FleeceBACK membranes to vertical surfaces
- » Can be used in temperatures as low as 25°F when used as an adhesive
- » Can be used in temperatures as low as 15°F when used as a primer
- » Easy setup
- » Easy cleanup
- » Low odor and Low-VOC

Acceptable Membranes and Applications

Membrane	Wall	Field
TPO	✓	✓
EPDM	✓	✓
PVC	✗	✗
FleeceBACK	✓	✗

Installation

1. Connect spray gun to hose and connect hose to cylinder. Use lithium grease or petroleum jelly on all fittings and be careful to avoid cross-threading. Open valve on cylinder to check fittings for leaks. **Keep cylinder valve open to maintain pressure in the hose/spray gun when not in use.**
2. CAV-GRIP III can be applied at ambient temperature of 25°F and above. **Propellant in cylinders must be kept above 70°F for the product to spray properly. Utilize power-heated blankets and hot boxes when necessary. Ensure that cylinder temperatures stay below 110°F.** Substrate shall be clean, dry, and free of debris and contaminants.
3. For applications taking place in ambient temperature below 70°F, store cylinders in heated space and move to project area during application. Cylinders must be kept warm on the jobsite. Dispense product from cylinder while it is still warm. When product in cylinder becomes too cold, it will begin to spit rather than spray. If this occurs, swap cold cylinder for warmer one and return cold cylinder to heated area. When changing cylinder, close the valve on the cylinder and depressurize the hose. Remove the hose and attach to the new cylinder. Open valve and do a test spray.
4. Apply CAV-GRIP III in an even coat to substrate (refer to the drawing on the next page), keeping the spray tip approximately 12" (30.5 cm) away and perpendicular to the surface during spray. Avoid high thickness buildup.
5. Allow CAV-GRIP III to flash-off until it does not transfer to finger when touched. Limit application of CAV-GRIP III to surfaces that will be covered with membrane or Carlisle's VapAir Seal 725TR the same day.

CAV-GRIP III Low-VOC Adhesive/Primer

Vertical Applications of Standard TPO, EPDM membrane, or any FleeceBACK membrane:

Acceptable substrates include: Carlisle's InsulBase® Polyiso, SecurShield® Polyiso, SecurShield HD, SecurShield HD Plus, SecurShield CD, InsulFoam SP, DensDeck® Prime, SECUROCK®, OSB, plywood, metal, residual asphalt, and clean concrete block. To improve adhesion and reduce the potential for asphalt bleed-through on vertical surfaces with residual asphalt, apply an initial "sealing" base coat of CAV-GRIP III and allow to flash off properly; then, apply a secondary coating of CAV-GRIP III to the vertical surface. Contact Carlisle before using on substrates other than those listed above.

There are no height restrictions when using CAV-GRIP III for vertical applications if the appropriate membrane terminations are utilized.

1. Spray wall and back of the membrane, utilizing a 50% overlapping spray pattern.
2. Do not apply adhesive to splice areas to be hot-air welded.
3. Allow adhesive to become tacky but not overly dry; it should not transfer to fingers when touched.
4. Mate membrane with the wall from the center of the sheet towards the edges, smoothing by hand.
5. Broom the membrane with a soft-bristle broom.
6. Roll in with a hand roller.

Horizontal Application of Standard TPO and EPDM Membranes

Acceptable substrates include: Carlisle's InsulBase Polyiso, SecurShield Polyiso, SecurShield HD, SecurShield HD Plus, SecurShield CD, DensDeck Prime, SECUROCK, OSB, and plywood. Please see Carlisle's Specifications for a complete list of acceptable substrates.

The surface, on or against which adhesive is to be applied, shall be clean, smooth, dry, free of films, sharp edges, loose and foreign materials, oil and grease. Depressions greater than ¼" (6 mm) should be feathered, using epoxy, mortar or other approved patching material. All sharp projections shall be removed by sweeping, blowing or vacuum cleaning.

Application shall be continuous and uniform, avoiding globs or puddles.

1. Spray substrate and back of the membrane with enough overlap to ensure 100% coverage (2" – 3" of overlap).
2. Do not apply adhesive to splice areas to be hot-air welded.
3. Allow adhesive to become tacky but not overly dry; it should not transfer to fingers when touched.
4. Roll the membrane onto the adhesive-coated substrate while avoiding wrinkles. Immediately brush down the bonded portion of the sheet with a soft-bristle push broom, and then roll the membrane with a weighted segmented roller to achieve maximum contact.

CLEANUP: Carlisle's Low-VOC UN-TACK™ safe solvent or mineral spirits can be used to clean tools and surfaces. If the spray gun valve becomes stuck, attach hose and spray gun to cylinder of Citrus Cleaner or Low-VOC UN-TACK and trigger spray gun repeatedly until operation is smooth. If the spray gun

is clogged, a small-gauge wire or torch clean-out tool is helpful after soaking the brass fitting in Low-VOC UN-TACK.

STORAGE: Store cylinders in protected, conditioned space with temperature maintained above 70°F. Do not store or heat cylinders where temperatures reach 110°F or higher. Contents are flammable. Store in accordance with local, state, and federal regulations. **Keep cylinder valve open to maintain pressure in the hose and spray gun.** Periodically spray in a safe manner to help prevent possible clogging. Keep spray gun trigger locked when not in use. Flush gun and hose with Low-VOC UN-TACK for long-term storage beyond 30 days.

RETURN INSTRUCTIONS FOR #85 CYLINDERS:

1. A minimum of 12 empty cylinders are required for a free return.
2. Arrange 12 empty #85 cylinders upright on a pallet.
3. Secure and shrink-wrap the entire pallet (including cylinders) to ensure safe shipment.
4. Call the 1-800 number listed on the #85 cylinder to schedule the pick-up of the pallet.
5. Please note: A forklift or loading dock is the preferred method to load the pallet onto the truck. If a forklift or loading dock is not available, discuss alternative methods when arranging the return.

CYLINDER DISPOSAL: When all adhesive/primer in the cylinder has been used, close cylinder valve and evacuate hose and spray gun before disconnecting hose from cylinder. If hose is not to be connected to a new cylinder immediately, do not evacuate hose and spray gun to ensure material does not harden in spray gun and hose. Clean up adhesive/primer residue, spray gun, and spray tips with Low-VOC UN-TACK or mineral spirits. In most areas, the empty cylinder can be disposed as an aerosol can or recycled as scrap metal. If disposal is not allowed in your area, contact your distributor for disposal arrangements. Federal law forbids transportation if refilled.

Review Carlisle specifications and details for complete installation information.

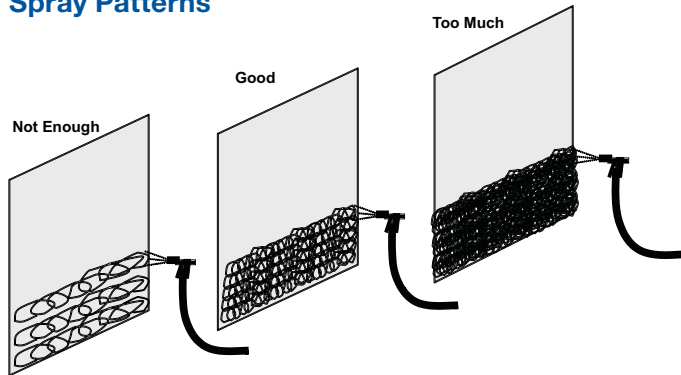
Precautions

CAV-GRIP III is a flammable liquid propellant and vapor. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from the material handling point and flashback. Keep away from open flame. Use with adequate ventilation. Avoid inhalation of spray mist or vapors. Harmful or fatal if swallowed. May cause eye irritation. Keep out of reach of children. Review Safety Data Sheet for complete safety information prior to use. Use of goggles and gloves is required. 40# aerosol cylinders are not refillable and when empty are harmless and disposable. Dispose according to local codes and laws. Read safety precautions and warnings on cylinder label. Wear gloves and goggles before using this product. Do not aim spray gun at people or animals at any time. PPE Gloves must be used while handling material.

For industrial professional use only.

*Important note: cylinder, hoses, and gun are each sold separately

Spray Patterns



Packaging

Product	Size/Weight	Part Number
CAV-GRIP III	#40 Aerosol Cylinder	329902
CAV-GRIP III EC (for use in Canada only)	Fill Weight: 30 lbs of adhesive	331381
CAV-GRIP III #85 (returnable cylinder)	#85 Cylinder Fill Weight: 60 lbs of adhesive	332659
6' Hose	6' Length	304302
12' Hose	12' Length	304303
18' Hose	18' Length	304304
Spray Gun with Extension	–	330912
Spray Gun Adjustable	–	307490
Low-VOC UN-TACK	#8 Aerosol Cylinder	330793

Typical Properties and Characteristics

Physical Property	Typical Value
Color	Light Green
Consistency	Aerosol Spray
Spray Pattern	Variable Web
Odor	Low
Base	Rubber/Solvent Blend
Solvent	Cyclohexane/Acetone
Coverage Rate #40 Cylinder	1-Sided Primer - 2000-2500 ft ² when used with air and vapor barriers* 2-Sided Adhesive - Walls – 750 ft ² * 2-Sided Adhesive - Field – 1000 ft ² *
Coverage Rate #85 Cylinder	1-Sided Primer - 4000-5000 ft ² when used with air and vapor barriers* 2-Sided Adhesive - Walls – 1500 ft ² * 2-Sided Adhesive - Field – 2000 ft ² *
Tack Time	5 minutes**
Adhesion	Excellent
Service Temperature	-30°F to 200°F
Flammability	Flammable when wet. Non-flammable when dry.
Water Resistance	Excellent
Mildew Resistance	Excellent
Shelf Life	12 months (unopened container)

* Approximate Coverage

** Or more depending on climate conditions

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Lynchburg, VA
VOC	248 g/L

Low-VOC UN-TACK Adhesive Remover and Cleaner



Overview

Carlisle's Low-VOC UN-TACK Adhesive Remover and Cleaner is designed to remove adhesives and primers from a variety of surfaces including single-ply membranes, accessories, metal, plastic, rubber, and glass. Low-VOC UN-TACK can also be used to clean spray guns and hoses used to apply CAV-GRIP III Low-VOC Adhesive/Primer.

Features and Benefits

- » Clears clogged spray guns and hoses
- » Allows easy cleanup of excess adhesive and overspray
- » VOC compliant in all 50 states

Coverage Rate

250 – 300 FT²/Cylinder surface area to be cleaned

Typical Properties and Characteristics

Physical Property	Typical Value
Color	Clear
Consistency	Aerosol Spray
Odor	Slight Solvent
VOC	33 g/l
Application Temperature	25°F to 100°F
Packaging	#8 Aerosol Cylinder
Part Number	330793

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product. *For application procedures and precautions please see the Low-VOC UN-TACK Adhesive Remover and Cleaner Product Data Sheet.