

# CAV-GRIP® PVC Adhesive



## Overview

Carlisle's revolutionary CAV-GRIP PVC Aerosol Contact Adhesive can be used for a variety of applications: adhering PVC bareback membranes to a variety of horizontal substrates and vertical walls (**cannot be used with any KEE or KEE HP bareback membranes**) and adhering FleeceBACK® membranes to vertical walls.

CAV-GRIP PVC's low-VOC 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. CAV-GRIP PVC cylinders meet the requirements for pressurized cylinders in Canada and the European Union.**

## Productivity Boosting Features and Benefits:

- » Quick application with spray gun
- » Fast flash-off time
- » No stirring
- » Up to 60% labor savings compared to traditional bonding adhesive



## Features and Benefits

- » Excellent option for adhering bareback PVC to horizontal and vertical surfaces and all FleeceBACK membranes to vertical surfaces
- » Can be used in temperatures as low as 35°F (2°C)
- » Easy setup with convenient spray application
- » Easy cleanup
- » Low-odor and low-VOC
- » Can be used as a primer for VapAir Seal 725TR (no FM approvals for this application)

## Acceptable Membranes and Applications

Membrane	Wall	Field
PVC (bareback)	✓	✓
FleeceBACK (EPDM, TPO, PVC, KEE HP)	✓	✗
TPO (bareback)	✗	✗
EPDM (bareback)	✗	✗
KEE/KEE HP (bareback)	✗	✗

## Installation

1. Connect spray gun to hose and connect hose to cylinder. 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 PVC can be applied at ambient temperatures of 35°F (1°C) and above. Propellant in cylinders must be kept above 70°F (21°C) for the product to spray properly. Utilize power-heated blankets and hot boxes when necessary. Ensure that cylinder temperatures stay below 110°F (43°C). Substrate shall be clean, dry, and free of debris and contaminants.
3. For applications taking place in ambient temperatures 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.

# CAV-GRIP PVC Adhesive



## An Ideal Re-Roofing Solution

**Convenience:** Quick spray application with a fast flash-off time

**Value:** Up to 60% labor savings compared to traditional bonding adhesive

**Performance:** For use on both horizontal and vertical surfaces in temperatures down to 35°F

4. Apply CAV-GRIP PVC 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 PVC to flash off (roughly 5-7 minutes depending upon ambient temperature). Once flashed off, adhesive will have little to no tackiness and provides an application window of roughly 15-20 minutes depending upon ambient temperature. Limit application of CAV-GRIP PVC to surfaces that will be covered with membrane.

### Vertical Applications of Standard PVC or Any FleeceBACK Membrane:

Acceptable substrates include: Carlisle's InsulBase Polyiso, SecurShield® Polyiso, SecurShield HD, SecurShield HD Plus, DensDeck® Prime, SECUROCK®, OSB, plywood, metal, and clean concrete block. Residual asphalt is an acceptable substrate for FleeceBACK membranes only. 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 PVC and allow to flash off properly; then, apply a secondary coating of CAV-GRIP PVC to the vertical surface.

Contact Carlisle before using on substrates other than those listed above.

There are no height restrictions when using CAV-GRIP PVC 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 flash off with little to no tackiness; it should not transfer to fingers when touched.
4. Mate membrane with the wall from the center of the sheet toward the edges, smoothing by hand.
5. Broom the membrane with a soft-bristle broom.
6. Roll in with a hand roller.

### Horizontal Application of Bareback PVC Membranes

Acceptable substrates include: Carlisle's InsulBase Polyiso, SecurShield Polyiso, SecurShield HD, SecurShield HD Plus, 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 flash off with little to no tackiness; 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 150-lb weighted segmented roller to achieve maximum contact.

**CLEANUP:** Carlisle's CAV-GRIP PVC 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 PVC UN-TACK and trigger spray gun repeatedly until operation is smooth. If the spray gun is clogged, soaking the brass fitting in PVC UN-TACK is helpful. For application procedures and precautions please see the low-VOC UN-TACK Adhesive Remover and Cleaner Product Data Sheet.

**STORAGE:** Store cylinders in protected, conditioned space with temperature maintained above 70°F (21°C). Do not store or heat cylinders where temperatures reach 110°F (43°C) 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 PVC UN-TACK for long-term storage beyond 30 days.

**RETURN INSTRUCTIONS FOR LARGE CYLINDERS:**

1. A minimum of 12 empty cylinders are required for a free return.
2. Arrange 12 empty Large 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 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 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 residue, spray gun, and spray tips with PVC 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.*

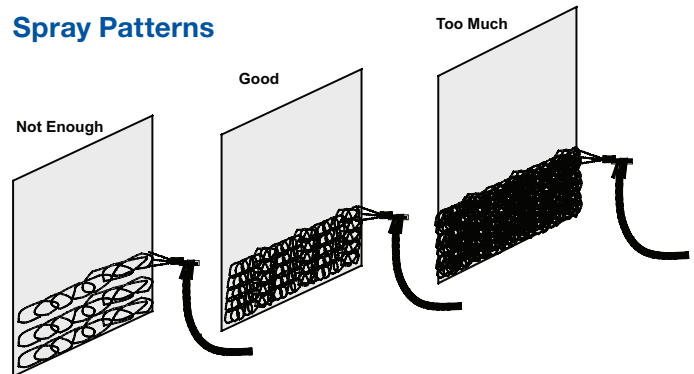
**Precautions**

CAV-GRIP PVC 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. Standard 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.

**Spray Patterns**



# CAV-GRIP PVC Adhesive

## Packaging

Product	Size/Weight	Part Number
CAV-GRIP PVC - Standard	Aerosol Cylinder: 12" diameter x 18" tall / 41lbs.	335178
CAV-GRIP PVC - Large (returnable cylinder)	Aerosol Cylinder: 12" diameter x 30" tall / 90 lbs.	336104
CAV-GRIP PVC UN-TACK	Aerosol Cylinder: 7.5" diameter x 14.5" tall / 16 lbs.	336090
6' Hose	6' Length	304302
12' Hose	12' Length	304303
18' Hose	18' Length	304304
Spray Gun w/ 24" Extension	–	330912
Spray Gun Adjustable	–	307490
Replacement Tips	–	332774

## Typical Properties and Characteristics

Physical Property	Typical Value
Color	Burnt Orange
Consistency	Aerosol Spray
Spray Pattern	Variable Web
Odor	Low
Base	Synthetic Rubber/Resin Blend
Solvent	Acetone
Coverage Rate - Standard Cylinder	2-Sided Adhesive - Walls – 400 ft <sup>2</sup> * 2-Sided Adhesive - Field – 750 ft <sup>2</sup> * 1-Sided Primer - 1,500 - 2,000 ft <sup>2</sup> *
Coverage Rate - Large Cylinder	2-Sided Adhesive - Walls – 800 ft <sup>2</sup> * 2-Sided Adhesive - Field – 1,500 ft <sup>2</sup> * 1-Sided Primer - 3,000 - 4,000 ft <sup>2</sup> *
Flash-Off Time	5 minutes**
Adhesion	Excellent
Service Temperature	-30°F to 200°F (-34°C to 93°C)
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	105 g/L