

Viking Cav-Grip III Low VOC

Viking Roofspec Supplier Code: STP904

Version: 1.1

Introduction

This Data Sheet is to serve as a reference guide for Viking Roofspec Licensed Installers who are already familiar with Viking Roofspec's systems and are responsible for Viking roof-system installations.

Carlisle's CAV-GRIP III is a low-VOC, spray applied aerosol contact adhesive and primer used for a variety of applications: adhering standard TPO and EPDM membranes to horizontal and vertical surfaces, adhering FleeceBACK membranes to vertical surfaces, as a primer for VapAir Seal 725TR, and as an unexposed asphalt primer. CAV-GRIP III is applied using a self-contained spray system for quick and even coverage with an excellent open time and requires minimal clean-up or maintenance. A spray gun with an extension wand is available for field of roof applications and a standard spray gun is available for wall applications. CAV-GRIP III Spray guns and hoses are sold separately.

Benefits are Quick setup » No Stirring needed » Easy clean-up » Low odour and Low-VOC » Estimated up to 60% labour savings compared to traditional bonding adhesive application » Suitable for use at lower temperatures.

Properties

Coverage	90m ²
Dry-time	less than 5 mins <i>Tacky without transfer to a dry finger</i>
Material adhesion	Enviroclad / Epiclad <i>Fleece-back upstands only</i>
Substrates	Ply, Concrete, Steel, PIR, Fibre-cement
Temperatures	-4°C to 43°C max <i>Dew can still form at lower temps</i>
Storage	21°C - 40°C max
Shelf Life	12 months (unopened container)
Colour	Light Green
VOC Content / Odour	248 g/L / Low
Solvent	Cyclohexane/Acetone

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 -4°C and above. Propellant in cylinders must be kept above 21°C for the product to spray properly. Utilize power-heated blankets and hot boxes when necessary. Ensure that cylinder temperatures stay below 43°C. Substrate shall be clean, dry, and free of debris and contaminants.
3. For applications taking place in ambient temperature below 21°C, 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 page 3), keeping the spray tip approximately 12" (30 cm) away and perpendicular to the surface during spray. Avoid high thickness buildup that can skin over, trap solvent, and create a blister.
5. Allow heavy areas of CAV-GRIP III to flash-off until it does not transfer to your finger when touched and pushed.

6. Solvent flash-off can lower the surface temperature below the dew point causing moisture to form on the adhesive. Slide your hand across the flashed-off adhesive on the insulation or cover board to ensure moisture has evaporated and the adhesive surface is dry and tacky prior to installing the membrane.

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

Acceptable substrates include: Polyiso, DensDeck® Prime, Plywood, Metal, Residual asphalt, and clean concrete block. To improve adhesion and reduce 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 second coat of CAV-GRIP III to the vertical surface. There are no vertical height restrictions when using CAV-GRIP III.

1. Spray wall and back of the membrane, utilizing a 50% overlap spray pattern.
2. Do not apply adhesive to splice areas.
3. Allow adhesive to flash-off so that the adhesive will not transfer to your finger when touched and pushed.
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 or extendable floor roller.

Horizontal Application of Standard Enviroclad TPO and EPDM Membranes

Acceptable substrates include: Polyiso, DensDeck Prime, Plywood and Concrete. 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 (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. Do not apply adhesive to splice areas to be hot air welded.
3. Allow heavy areas of adhesive to flash-off so that the adhesive will not transfer to your finger when touched and pushed.
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.

Precautions:

CAV-GRIP III is a flammable liquid propellant and vapour. Vapours 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 vapours. 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. 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.

Storage:

Store cylinders in protected, conditioned space with temperature maintained above 21°C. Do not store or heat cylinders where temperatures reach 43°C or higher. Contents are flammable. Store within NZ Safety regulations. Store cylinders in a clearly identified, dry, well-ventilated storage area that is not exposed to heat or the direct rays of the sun, and away from doorways, aisles, elevators, and stairs. Store cylinders, both empty and full, in the upright position and secure with an insulated chain or non-conductive belt

July 2023

PRODUCT DATA SHEET

Quick Notes:

1. Refer to Storage and Installation information.
2. Propellant in cylinders must be kept above 21°C for the adhesive to spray properly
3. Keep spray gun trigger locked when not in use.
4. Keeping cylinder valve open to maintain pressure in the hose and spray gun for up to 30 days.
5. Periodically spray in a safe manner to help prevent possible clogging.
6. Flush gun and hose with Low-VOC UN-TACK for long-term storage beyond 30 days.

Components

STP904 Cav Grip III Adhesive

STP907 Untack Cav Grip III cleaning system.

STP906 CAV Grip Spray Gun

STP908 Cav Grip Spray Gun with extension

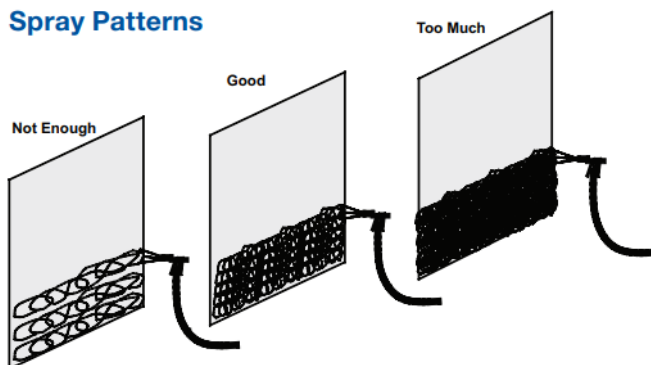
STP905 Cav Grip Hose (1.8m)

STP905a Cav Grip Hose (3.6m)

STP905b Cav Grip Hose (5.4m)

STP909 Cav Grip Spray Gun replacement Tip Alternative List Number

Spray Patterns



Proper Coverage on Membrane



Proper Coverage on Insulation

Auckland office

80 Alexander Crescent,
Otara PO Box 14-541,
Panmure, Auckland
1741, New Zealand

Christchurch office

2 Nazareth Avenue,
Middleton, PO Box
9117, Tower Junction
Christchurch 8149,
New Zealand

Wellington office

19 Pretoria St,
Lower Hutt 5010,
New Zealand

T: 0800 729 799

F: 0800 729 788

info@vikingroofs spec.co.nz

www.vikingroofs spec.co.nz

A division of Viking Group Limited