

CAV-PRIME Low-VOC EPDM and TPO Primer



Overview

CAV-PRIME Low-VOC EPDM & TPO Primer is Carlisle's Low-VOC membrane primer packaged in a pressurized cylinder for spray application. Low-VOC Primer is a solvent-based product designed for one-step priming of EPDM or TPO surfaces prior to the application of Factory-Applied Tape™, Coverstrip, SecurTAPE™ and all other pressure-sensitive (PS) products. This product is designed to comply with VOC regulations.

CAV-PRIME is applied via a self-contained spray system coupled with a spray gun with extension wand and applicator attachment kit. CAV-PRIME spray guns, hoses, and applicator attachment kits are each sold separately.

Features and Benefits

- » One-step primer used in conjunction with all pressure-sensitive accessories on EPDM or TPO membranes
- » Quick, one-person application with spray gun and applicator attachment
- » Backpack available to make application even faster and easier
- » Increased coverage rate vs. traditional application of primer in pails
- » Pressurized cylinders eliminate pails being left open – no more primer curing in pails or being spilled on the roof
- » VOC content less than 250 g/L
- » Excellent long-term peel and shear strength

Coverage Rate

Approximately 1,760 ft²/cylinder (163.5 m²) can be expected on Kleen EPDM and TPO membrane.

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. The surface to which the primer is being applied should be dry and clean. EPDM and TPO membrane can be cleaned with Weathered Membrane Cleaner prior to primer application.

Note: Permeation-resistant gloves (that meet ANSI/ISEA 105-2005) are required for hand protection when cleaners or primers are being used.

3. For best results, roller-apply primer to the membrane using the CAV-PRIME applicator kit and a short nap-length paint roller. Primer can also be applied to the substrate using the spray gun and immediately rolled using a separate nap roller. The coated area should be uniform in color and free of globs or puddles. Refer to the CAV-PRIME Assembly and Application Instructions for more details on how to use the applicator.

Note: The use of excessive amounts of primer will not significantly enhance the adhesion of the Factory-Applied Tape or PS product to the TPO membrane. Use only the amount necessary to obtain 100% coverage of the area where the tape or adhesive will be applied.

4. Allow the primer to properly flash off until it does not transfer to a dry finger touch. Install the Factory-Applied Tape or PS product as soon as the primer flashes off to minimize potential dust contamination and promote adhesion in colder weather.
5. Complete the splice as specified in Carlisle's Specifications and Details.

CLEANUP: Carlisle's CAV-PRIME Low-VOC Hose and Gun Cleaner can be used to clean tools and surfaces. If the spray gun valve becomes stuck, attach hose and spray gun to cylinder of CAV-PRIME Hose and Gun Cleaner 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 CAV-PRIME Hose and Gun Cleaner. **DO NOT USE** Carlisle's Low-VOC UN-TACK cleaner that is used with CAV-GRIP® III, as it will result in primer gelling inside the hose and gun.

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

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trigger locked when not in use. Flush gun and hose with CAV-PRIME Hose and Gun Cleaner for long-term storage beyond 30 days.

CYLINDER DISPOSAL: When all 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 primer residue, spray gun, and spray tips with CAV-PRIME Low-VOC Hose and Gun Cleaner. 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, or visit the Carlisle website for more information on cylinder recycling. Federal law forbids transportation if refilled.

Review Carlisle specifications and details for complete application information.

Precautions

- » Flammable liquid. Keep away from heat, hot surfaces, sparks, open flames and other ignitions sources. Do not spray on or near an open flame or other ignition source.
- » To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment/spray system, personnel, and substrate should be grounded.
- » Use explosion-proof electrical equipment and use only non-sparking tools.
- » Do not pierce or burn, even after use.
- » Use and clean equipment only outdoors or in a well-ventilated area.
- » Stop operation immediately if static sparking occurs. Do not use equipment until you identify and correct the problem.
- » Keep a working fire extinguisher in the work area.
- » Avoid allowing the primer to over dry or lose tack.
- » Install pressure-sensitive flashings, corners and tapes immediately after primer flashes off and remains tacky.
- » Avoid contact with eyes and skin.
- » Avoid breathing vapors. Use with adequate ventilation. If inhaled, remove to fresh air. If not breathing, perform artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately. During application, efforts must be made to prevent fumes from entering the building via air ventilation ducts. When possible, shut down or seal off the closest air intake units.
- » If swallowed, DO NOT INDUCE VOMITING. Call a physician immediately.
- » Permeation-resistant gloves (that meet ANSI/ISEA 105-2005) must be worn with Low-VOC Primer to protect hands from staining and irritating ingredients.
- » Use Low-VOC Primer full strength. Do not thin. Thinning will affect performance.
- » Low-VOC Primer is not white in color. Care should be taken to limit the amount of primer exposed beyond the splice area for improved aesthetics.
- » Jobsite storage temperatures in excess of 90°F (32°C) may affect product shelf life. Should the primer be stored at temperatures lower than 60°F (15°C), restore to room temperature prior to use.
- » Due to solvent flash-off, condensation may form on freshly applied Low-VOC Primer when the ambient temperature is near the dew point. If condensation develops, the application of primer must be discontinued (proper adhesion will not be obtained). Allow the surface to dry and apply a thin freshener coat of primer to the previously coated surface when conditions allow.
- » REVIEW THE CAV-PRIME LOW-VOC PRIMER SAFETY DATA SHEET FOR COMPLETE SAFETY INFORMATION PRIOR TO USE.
- » KEEP OUT OF REACH OF CHILDREN.

Packaging

Product	Size/Weight	Part Number
CAV-PRIME Low-VOC EPDM & TPO Primer	32 lbs Cylinder (14.5 kg) Fill weight: 21 lbs (9.5 kg) of primer	341449
6' hose	6' (1.8m) Length	304302
12' hose	12' (3.7m) Length	304303
Spray gun with 3' extension	—	341897
Applicator Attachment Kit	—	341228
CAV-PRIME Backpack	—	341898
CAV-PRIME Hose & Gun Cleaner	8 lbs cylinder (kg)	341407

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Typical Properties and Characteristics

Base	Synthetic Rubber
Color	Olive Drab
Solids	9%
Flash point	40°F (4.4°C)
Coverage Rate per Cylinder	1,760 sf
Coverate Rate per 3" Seam without Factory-Applied Tape (assuming 4" wide primer application)	2,640 Lf
Coverate Rate per 3" Seam with Factory-Applied Tape (assuming 4" wide primer application)	5,280 Lf
Shelf Life	12 months

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.

LEED® Information

Recycled Content	0%
Manufacturing Location	Lynchburg, VA
VOC Content	<250 g/L