

Viking CIAPG-4.5TA

Torch-Applied, Mineral Surfaced Modified Bitumen Membrane



PRODUCT OVERVIEW & FEATURES

Viking CIAPG-4.5TA is a torch-applied, mineral surfaced, modified bitumen waterproofing membrane composed of carefully selected asphalts (bitumen) having superior modifying characteristics, blended with high quality polypropylene resins. Viking CIAPG-4.5TA is reinforced with spunbond polyester fabric. Viking CIAPG-4.5TA waterproofing membrane yields the following performance characteristics:

- Impermeable to water
- Thermally stable
- Excellent adhesion
- Resistant to acids and most bases
- Puncture resistant
- Excellent workability
- Longevity

Spunbond polyester fabric, used as reinforcement in CIAPG-4.5TA, has isotropic mechanical properties giving the composite membrane similar mechanical characteristics in all angular directions in relation to the membrane surface. Spunbond polyester fabric imparts the following properties to the composite membrane:

- High flexibility
- Puncture resistance
- High elongation
- Mechanical strength
- Fatigue resistance
- Tear strength
- Deterioration resistance
- Dimensional stability

Viking CIAPG-4.5TA incorporates a smooth and even application of polyethylene film to prevent blocking of rolls and to provide a smooth, acceptable torching surface. Polyethylene burn-off film is contained on the torchable face of the roll. The polyethylene burn-off film acts as a “sight indicator” for the applicator in determining the proper flow needed to ensure adequate bonding of plies and seams. After installation of the roofing membrane is complete, the surface may be coated with a Viking Products Group approved roof coating to increase the overall reflectivity of the system and/or fire rating. VPG recommends that a period of at least 45 days elapse before roof coatings are applied. This will effectively allow the membrane to “cure” and accept the roof coating.

APPLICATION

Depending on the type of roof, CIAPG-4.5TA can be either fully adhered, spot or partially adhered, or loose laid. VPG specifications applicable to this product should be consulted to determine which system should be employed.

When applying the membrane, the polyethylene burn-off film should always be down facing the roof deck. Prior to application, the membrane should be unrolled completely, aligned and set before the actual heat welding of the membrane occurs. The membrane should then be rolled up half way, leaving the other half fully extended. (This will ensure the membrane will remain aligned during the heat welding process.)

Begin torching the burn-off film surface of the membrane, using a sweeping motion, maintaining even heating. The actual torching motion should be done in an “L” configuration, preheating the previously installed membrane lap and then sweeping across the roll face while advancing the roll over the roof surface. As the roll is advanced, a bead of modified bitumen should be seen flowing from between the lap seam a distance of 1/4 to 3/8” from the membrane edge, which is being advanced. This “flow out” should be consistent and uninterrupted. Seams that are not fully bonded can be repaired by inserting a hot trowel between the affected seam and lightly torching. Upon removal of the hot trowel, pressure should be applied to the top ply, forcing the modified bitumen to flow out the desired distance.

All side and end laps should be a minimum of 4 inches and 6 inches respectively. If the membrane is loose laid, an area of 40” each side of the end lap should be fully bonded to the roof surface.



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APPLICATION (cont.)

Viking APP membranes may not be installed in hot roofing asphalt, cold process adhesives or by mechanical attachment. Viking APP membranes are not recommended for use over coal tar or pitch roofs unless the existing deck is separated from the VPG membrane by a min. 1/2" thick, mechanically attached recover board. Viking does not allow the use of plastic roofer's cement with any of its membranes. As with any roofing project, good roofing practices should always be followed. Consult the VPG specification and details book for information governing certain systems.

WARNING & LIMITATIONS

- Not intended to perform under ponding conditions
- Positive drainage required
- Not intended for application in hot-applied bituminous adhesives
- Apply APP membranes only when the ambient air temperature, deck, and materials are 40°F in the morning and rising throughout the afternoon
- Keep materials warm prior to use by storing indoors or in a heated storage unit
- Keep all materials dry and stored on pallets until installation

TOOLS REQUIRED

To apply Viking CIAPG-4.5TA waterproofing membrane, the only tools needed are: a propane torch having a UL certified regulator, propane bottle, spatula or round nose roofer's trowel, a roofer's knife, pair of work gloves, flat-soled shoes and an ABC dry chemical fire extinguisher.

Before using this product, be certain that all information concerning the installation of this product and safety guidelines pertaining thereto have been read and fully understood. The application of modified membranes requires the use of explosive gas and molten asphalts, which if mishandled, can and will cause personal injury and/or property damage.

SAFETY

Contractor

It is the contractor's responsibility to observe all fire prevention policies and practices, to train, instruct and warn employees on the use of torching equipment. Follow OSHA and NRCA provisions for fire protection, including but not limited to those

listed in OSHA 1926.150, 151, 153, 1191-110, which apply to torch application. The contractor should be familiar with NFPA 58 "Standard for the Storage and Handling of Liquefied Petroleum Gas" and any other appropriate publications of the National LP Gas Association.

Fire Department Regulations

The contractor should be familiar with all local fire codes in his area. The contractor is responsible for obtaining all necessary permits or certificates before any work is started.

Personnel

Proper clothing should be worn at all times while installing any modified membrane. Long-sleeve shirt, long pants, leather or durable flat-soled shoes and work gloves. Workmen, other than the torch operator, should be no closer than 3' from open flame. The roofing contractor and his employees are the key to success regarding safety. Safety should always be first!



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Data Sheet

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DATA & TESTING

Approvals	UL (R13231)
Softening Point (ASTM D-36)	320°F (150°C)
Reinforcement	Spunbond Polyester Fabric
Penetration (ASTM D5)	30 dmm @ 25°C
Slide (UNI-8202)	<1 mm
Cold Flexibility (UNI-8202)	Passed +5°F (-15°C)
Water Tightness (CGSB 37-GP-56M)	Passed
Dynamic Puncture (CGSB 37-GP-56M)	Passed
Static Puncture (CGSB 37-GP-56M)	Passed
Tensile Strength (ASTM D-412)	MD = 100 lbf./in. XMD = 70 lbf./in.
Elongation (ASTM D-412)	MD = 50% XMD = 55%
Load Strain Product (CGSB 37-GP-56M)	MD = 44,482 n XMD = 34,251 n
Thickness	4.5 mm
Approx. Roll Weight	92 lbs
Approx. Coverage, Installed	75 ft. ²
Approx. Total Surface Area	86.4 ft. ²

Viking CIAPG-4.5TA rolls are 1 meter wide and 25.58 feet in length.
Flashing rolls are available in half and quarter widths.

For specific application recommendations, please contact your local Viking Products Group representative.



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