Vulcan ASPHALT & SUPPLY

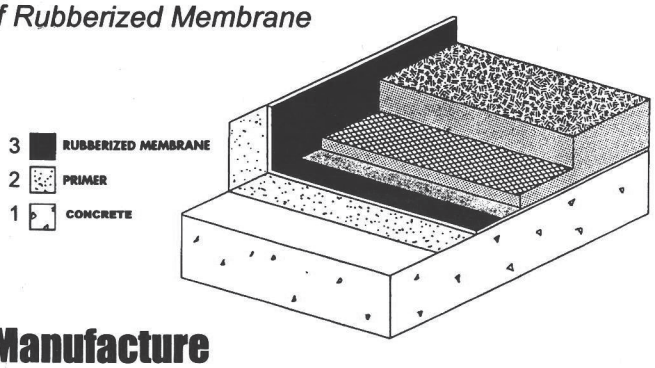
Date: February 2019

Membrane

Vulcan Florastic Waterproof Rubberized Membrane

Specification CGSB 37-GP-50M

This specification covers the use of Vulcan Florastic Hot Applied Rubberized Membrane, hot applied to form a continuous elastomeric membrane. This is ideal when used under a protective coating of Vulcan's Florastic Salt Resistant Hot Process Mastic Asphalt forming a bonded waterproof, flexible, monolithic membrane topped by a tough traffic surface, rugged enough to withstand the every-day abuses in commercial and apartment multiple garage parking and traffic decks.



Installation

1. The concrete surface should be float finish and any un sound concrete repaired prior to membrane application.

   The concrete surface shall be clean, dry and free of dust, dirt, frost, laitance, grease, oil, curing compound and any other substance that may adversely affect membrane adhesion.

   Expansion joints shall not have broken edges and shall be free of any materials such as styro foam, wood forms or any other debris for a minimum depth equal to the joint width
2. The cleaned concrete surface shall then be primed at a rate not exceeding one gallon per 200 square feet. Asphalt primer shall be used and allowed to dry prior to membrane placement.
3. Apply a hot applied rubberized membrane by means of a rubber squeegee to the deck. Construction joints and cracks greater than 2 mm wide shall receive a double application of membrane reinforced with 12" wide sheets of spunbonded polyester fabric.

   Expansion joints shall receive a double application of membrane reinforced with a 12" wide sheet of butyl rubber. The butyl rubber sheet shall be centered over and looped down into the joint for anticipated movements. Care shall be taken to ensure that air is not trapped beneath rubber sheets.

Materials

The Vulcan hot applied membrane is a selected blend of suitably fluxed residual and natural asphalts, a modifying agent, rubber, extender oil, mineral fillers and synthetic rubber polymers

Manufacture

Materials are heated on site using a mechanically agitated oil heated Asphalt Mixer machine. The reheating and control of materials shall be carried out by an operator who has been factory trained and shall be thoroughly skilled in the operation of the machinery and have complete knowledge of the use and application of salt resistant rubberized thermoplastic coatings and a comprehensive knowledge of all materials used in the manufacturing.

Delivery & Storage

Membrane must be heated under constant supervision of experienced personnel, in an indirectly heated oil jacket kettle equipped with a positive agitating system and kept at a controlled temperature. Stockpiled membrane shall be kept dry and protected from damage, weather and deterioration.

Physical Properties: Membrane

Overall Thickness	Minimum 1.5 mm - Maximum 3mm
Colour	Black
Service Temperature	Min. -28°C to Max. +38°C
Application Temperature	Min. -28.°C to Max. +38°C
Setting Time	as soon as membrane has cooled to temperature of the surrounding atmosphere
Method of Application	Hot applied by a squeegee or mop
Spreading Temperature	Min. 150°C to Max 210°C

TABLE 1: Performance Testing of Rubberized Asphalt Membrane CGSB 37-GP-50M

TEST	CGSB 37-GP-50M SPECIFICATION	TEST RESULTS	COMMENTS
Flash Point, °C	Min. 26	268°C	Passed
Penetration, 0.1mm	Max. 110 @ 25°C	28	Passed
	Max. 200 @ 50°C	89	Passed
Flow, mm	Max. 3	60	Passed
Adhesion	Min. 1.0	60	Passed
Water Vapour Permeance (ng/Pa.m².s)	Max. 1.7	0.90	Passed
Water Absorption, g	Min. 0. 18	+0.22	Passed
Water Resistance	N/A		
Low Temperature Flexibility	No cracking or loss of adhesion	No cracking or loss of adhesion	Passed
Crack Bridging	No cracking or loss of adhesion	No cracking or loss of adhesion	Passed
Heat Stability Penetration, 0.1 mm	Max. 110 @ 25°C	25	Passed
	Max. 200 @ 50°C	55	Passed
Flow, mm	Max. 3	0	Passed
Viscosity, sec.	Min. 2, Max. 15	14	Passed
Low Temperature Flexibility	No cracking at - 25'C	No Cracking	Passed
Viscosity, sec.	Min. 2, Max. 15	13	Passed

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