CCI Modified-Bitumen Membrane

3mm Thickness



Product Introduction:

CCI-Modified Bitumen Membrane is a Torch-applied bituminous felt reinforced with non-woven polyester mat and modified with APP elastomeric bitumen. CCI-Modified Bitumen Membrane has cold flexibility property of -10°C. Produced in thickness of 3 mm CCI-Modified Bitumen Membrane is commercialized bottom and upper surfaces protected by thermo-fusible PE film. CCI-Modified Bitumen Membrane is a heavy duty felt reinforced with 250 gr/m² non-woven polyester mat and used in civil engineering works; viaducts, bridges and tunnels on highways and railways. Can be applied for upper layer of multi-layer build-up system or single layer.

Usage and Properties:

CCI-Modified Bitumen Membrane is a heavy-duty professional and reliable quality waterproofing membrane approved by highway authorities. •Waterproofing of civil works: viaducts, metallic bridges, reinforced concrete highway and rail bridges, car parks, avalanche barriers, bleachers and roofs of the stadiums, tunnels and underground passageways, canals, dams, locks or docks, walkway, well casings, hopper, cut and cover, technical gallery, new construction or in the course of maintenance. •For effective waterproofing water tightness alone is not enough. The waterproofing felt must possess a number of additional qualities; adhesion and mechanical resistance in order to resist to the effects of thermal expansion/ retraction, heavy traffic or other loading imposed damaging effects of all likely contaminants, etc. and resistance to the damaging effects of biological, chemical and physical agents. •The waterproofing felt should also resist to aging degradation of the structure in order to maintain the water-tightness of the entire building. CCI Bitumen membranes have optimal mechanical and physical properties and their quality is ultimate in performance, versatility, and ease-of-use.

Test Report:

Serial Number	Items			Standard Specification	Result	Remarks
1	Mass per unit area, kg/m2			≥3.3	3.7,3.7,3.7,3.7,3.7	Passed
2	Area, m2/roll			10±0.10	10.05,10.04,10.03,10.04,10.05	Passed
3	Thickness, mm		Average value	≥3.0	3.1,3.1,3.2,3.2,3.2	Passed
			Minimum Value	2.7	3.11,3.12,3.13,3.14,3.15,3.18	Passed
4		End face inside out, mm		Not exceed 10	5,5,6,6,6	Passed
	Appearance	Feeling condition		The tire base should be soaked and there should be no unimpregnated areas. The surface should be flat, no holes, missing edges and cracks, bumps are allowed	The tire base is soaked, surface is smooth, without holes, missing edges, cracks or bumps	Passed
		Open book		When the coil is rolled out at	No cracks	Passed



				any product temperature (4-60°C), there should be no cracks or adhesion of more than 10mm beyond the length of 1000mm from the core		
		Joir	ıts	There should be no more than one, and the length of the shorter section should not be less than 1000mm. The joints should be cut neatly and lengthened by 150mm.	No splices	Passed
5		Soluble content		≥2100	2111	Passed
	Heat	110°C Slide, mm	Upper Surface Lower	≤2	0	Passed
6	resistance		Surface	No flowing or		Passed
		Test pher	nomena	dripping	ino flowing or aripping	Passed
7	Low	temperature flex	ibility	-7°C, no cracks	No cracks	Passed
8	Im	permeable, 30 n	nin	0.3 MPa	0.3 MPa, 30 mins waterproof	Passed
	Pull	Maximum	Longitudinal	≥500	1018	Passed
9		реак,N/50mm Test pher	Landscape	During the tensile process, there is no cracking or separation of the asphalt coating layer from the tire base in the middle part of the specimen	9/1 There is no cracking or separation of the asphalt coating layer from the tire base in the middle part of the specimen	Passed
40		Maximum	Longitudinal	≥25	39	Passed
10	⊢iongation	peak	Landscape		42	Passed
11	Mass in	crease after soa	kina. %	≤1.0	0.4	Passed
40	11-4	Pull hold rate.	Longitudinal		104	Passed
12	ΠΟΙ	%	Landscape	290	104	Passed



		Elongation	Longitudinal	. ≥80	104	Passed
		%	Landscape		107	Passed
		Low temperat	ure flexibility	-2°C, no cracks	No cracks	Passed
		Size chang	je rate, %	≤0.7	0.7	Passed
		Quality I	oss, %	≤1.0	0.2	Passed
13	Sean	n peel strength, I	N/mm	≥1.0	1.5	Passed
14	Thickness bottom	s of asphalt coat surface of the c	ing on the oil, mm	≥1.0	1.1	Passed
15	Artificial	Appea	rance	No sliding, flowing, dripping	No sliding, flowing, dripping	Passed
	climate acceleration	Pull to keep	Longitudinal	≥80	100	Passed
		aging rate, %	Landscape		102	Passed
		Low temperat	ure flexibility	-10°C, no cracks	No cracks	Passed

General Application Steps:

- 1. Clean and prime the substrate to properly receive a new, two-ply waterproofing membrane. Make sure the primer is completely dry before application.
- 2. The movement of the torch should be a continuous to and from motion allowing the flame to cover the entire width of the membrane without burning the side of the adjacent sheet already installed.
- 3. Heat concrete substrate when it's cold. Verify that all roof openings, curbs, pipes, sleeves, ducts, vents, valley, ridges, box gutters, dormers, hips, eaves, rain water outlets, chimney, expansion joints or other penetrations through the roof are solidly set, and that all flashings are properly sealed.
- 4. Side laps must be 10 cm and end lap joints must be at least 15 cm. The overlapping lines of base sheets at side lap joints serve as a guide for proper side overlapping.
- 5. End laps are areas of possible infiltration of water due to an excessive thickness of membrane causing a void. After aligning end lap, perform a 45° angle cut at on all the end laps of the underlying sheet. Once the 45° angle cut is performed it will provide a smooth tapered transition. An asphaltic bleed out must be achieved at this transition location and at all the "T" joints formed by the succeeding courses.
- 6. To prevent overly thick membranes, stagger the end laps a minimum of 30 cm relative to those of the base sheet.
- 7. Use a geotextile as a separation layer prior to the application of the asphalt.

Note:

Rain, frost, snow and high humidity can interfere with the adhesion of the membrane. With temperatures below +2°C it is better to avoid the application. Before application the substrate must be clean and dry. Standing water should be removed from the deck surface before recommencing laying operations. Special care is required during installation to avoid damage to waterproofing membranes. If it is impossible to restrict access to the waterproofing professionals alone, temporary protection must be employed to protect the membrane from the level of traffic. All works after the laying of the



Packaging:

Membrane: 1M x 10M Primer: 20.0 Kgs Note: 20Kgs of primer for 40sqm

Tools:

Roofing torch, propane cylinder, connecting hoses with regulator, trowel, knife and gloves.

Storage:

Protect material from heat and direct sunlight. Keep rolls in a vertical position and do not stack them.

