



Evaluation Report CCMC 13606-R Weatherdek Plus

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1. Opinion

It is the opinion of the Canadian Construction Materials Centre (CCMC) that “Weatherdek Plus”, when used as a waterproof membrane covering for decks and balconies subject to light pedestrian traffic in accordance with the conditions and limitations stated in Section 3 of this Report, complies with the National Building Code (NBC) of Canada 2015:

- Clause 1.2.1.1.(1)(b), Division A, as an alternative solution that achieves at least the minimum level of performance required by Division B in the areas defined by the objectives and functional statements attributed to the following applicable acceptable solutions:
 - Section 9.26., Roofing

This opinion is based on CCMC’s evaluation of the technical evidence in Section 4 provided by the Report Holder.

Ruling No. 14-209-305 (13606-R) authorizing the use of this in Ontario, subject to the terms and conditions contained in the Ruling, was made by the Minister of Municipal Affairs and Housing on 214-09-25 pursuant to s.29 of the *Building Code Act*, 1992 (see ruling for terms and conditions). This Ruling is subject to periodic revisions and updates.

2. Description

The product is a polyvinyl chloride membrane made with a nominal thickness of 1.5 mm. The product is made with reinforced woven and non-woven heat set polyester backings. The surface of the product is embossed to provide a textured finish. The membrane is available in rolls that are 1 372 mm or 1 829 mm wide and can be cut to a required length. The product is available in a variety of colours.

3. Conditions and Limitations

CCMC’s compliance opinion in Section 1 is bound by the “Weatherdek Plus” being used in accordance with the conditions and limitations set out below:

- The product can be used as a waterproof membrane that is fully adhered to a continuous solid substrate, such as a plywood or concrete deck and balconies that are subject to light pedestrian traffic.
- The product must be used only in conjunction with plywood or concrete substrates. The membrane must be fully adhered to the substrate with adhesives WD-1000 or WD-7633 and applied as per the installation manual.
- The product’s deck membrane can be considered as an alternative solution to materials referenced in Section 9.26. of Division B of the NBC 2015.
- The product is limited for use in areas that are subject to traffic loads generated by residential occupancies only.
- The product must not be exposed to chemical attack or spillage. In situations where extended contact with chemicals or pollutants may occur, the suitability of the product must be determined.
- The product is limited for use where the roof or deck surface has a minimum slope of 1:48.
- Any physical or chemical damage to the membrane must be repaired in accordance with the manufacturer’s instructions. The product must not be installed with butt seam joints.
- Joints must be shingle-lapped in order to shed water.
- The product must be installed by approved applicators only and in strict conformance with the manufacturer’s installation instructions.

- The product or its packaging must be identified with the manufacturer's name or logo and the phrase "CCMC 13606-R."

4. Technical Evidence

The Report Holder has submitted technical documentation for CCMC's evaluation. Testing was conducted at laboratories recognized by CCMC. The corresponding technical evidence for this product is summarized below.

4.1 Material Requirements

Table 4.1.1 Results of Testing the Material Properties of the Product

Property	Unit	Requirement	Result	
			Woven	Non-woven
Overall thickness	mm	Report value	1.9	2.0
Coating thickness	mm	Min. 0.4 (no measurement less than 0.32)	No coating on membrane	No coating on membrane

4.2 Performance Requirements

Table 4.2.1 Results of Testing the Performance Properties of the Product

Property		Unit	Requirement	Result	
				Woven	Non-woven
Breaking strength		kN/m	≥ 30	66	67
				65	70
Water vapour transmission		g/m ² /d	≤ 4.0	0.7	0.8
Water absorption mass		%	≤ 3.0	1.8	1.7
Static puncture (rating)		–	≥ 3	4	4
Dynamic puncture (rating)		–	≥ 3	4	4
Low temperature impact	original	–	8 out of 10 pass	Pass	Pass
	after weathering			Pass	Pass
Low temperature flexibility	original	–	Material must not crack or exhibit any visible defects.	Pass	Pass
	after heat aging			Pass	Pass
	after weathering			Pass	Pass
Lap joint strain energy	machine direction	%	Min. 75% of original membrane	Pass	Pass
	cross-machine direction			Pass	Pass
Lap joint strain energy – (after 7 days boiling)	machine direction	%	Min. 70% of original membrane	Pass	Pass
	cross-machine direction			Pass	Pass
Abrasion resistance – original	weight loss	g	≤ 0.4	0.4	0.4
	depth of wear	mm	≤ 0.30	0.17	0.17
Resistance to accelerated weathering		–	No cracking, blistering or colour change	Pass	Pass
Adhesion substrate	concrete surface with contact adhesive	N	≥ 125	126	219
	plywood substrate with contact adhesive	N		193	226
	plywood substrate with latex adhesive			133	128
Slip resistance – dry condition (rating)	leather	–	≥ 0.50	0.54	
	rubber		≥ 0.70	0.99	

Property		Unit	Requirement	Result	
				Woven	Non-woven
Slip resistance – wet condition (rating)	leather	-	≥ 0.60	0.65	
	rubber		≥ 0.65	0.80	

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