

FILL THE CRACKIN

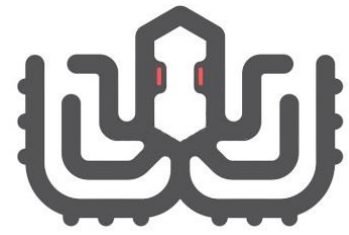
Crackin-6940 Hydrolite Protected membrane system (Light PMR)

Application on wood sheathing

Section 07561

Manufactured In Calgary Alberta

587-926-7257



1 General

The following is prepared in standard CSC three-part Section format. It should be included in Division 7- Thermal and Moisture Protection under its own section.

1.1 Summary

This Specification is for a system consisting of the following;

1. Structural wood sheathing (pressure treated is NOT acceptable)
2. Fully reinforced Crackin-6940 to nominal thickness of 5mm
3. Separation Sheet
4. Extruded Polystyrene Insulation; Type 4
5. Light Weight Ballast

1.2 Related Sections

1. Section [] - Cast-In-Place Concrete
2. Section [] - Structural Precast Concrete
3. Section [] - Rough Carpentry
4. Section [] - Thermal Insulation
5. Section [] - Sheet metal flashing and counterflashing
6. Section [] - Prefabricated roof specialties
7. Section [] - Caulking and sealants
8. Section [] - Plumbing specialties
9. Section [] - Roof hatches

1.3 References

- .1 CGSB-37.50-M89, Hot-Applied Rubberized Asphalt for Roofing and Waterproofing.
- .2 CGSB-37.9M; Asphalt Primer for Roofing and Waterproofing.
- .3 CGSB-51.20M; Thermal Insulation, Extruded Polystyrene.

1.4 Shop Drawings

- .1 Submit shop drawings in accordance with Section [].

1.5 Submittals

- .1 Submit with the tender form a letter from Fill The Crackin Ltd stating that the contractor has a minimum of 5 years experience installing Crackin-6940 membrane and is qualified to perform Warranty work.

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1.6 Delivery, Storage And Handling

- .1 All material must be delivered to the jobsite in its original packaging. The manufacturers name, product name, production/batch code, and handling instructions must be easily identifiable.
- .2 Store materials in manufacturers packaging until used on site. Additional protection from the elements may be required to ensure materials remain clean and dry until ready to install.
- .3 Any materials damaged during delivery must be replaced prior to commencement of work.

1.7 Site Conditions

- .1 Ensure all surfaces to receive the membrane are clean, dry and free of frost. New concrete must be cured a minimum of 14 days prior to installing Crackin-6940.
- .2 Do not apply Crackin-6940 when the ambient temperature is below -18°C. .
- .3 Ensure the service temperature of the products falls within acceptable limits as detailed on the product data sheets. Notify Fill The Crackin Ltd of any potential risks prior to commencement of work.
- .4 Ensure the components of the system will not be exposed to any chemicals to which they are not resistant as detailed on the product data sheets. Care must be taken to ensure that primer, oil, gas, etc., are not spilled on the system.
- .5 Protect Crackin-6940 from construction traffic during and after installation. Inspect the system for damage prior to installing the balance of the assembly.

1.8 Warranty

- .1 Upon completion of work, the manufacture must supply the Owner with a manufacturers 20 year Warranty providing coverage against any actual leakage caused by material defects.
- .2 Upon completion of work, the contractor must supply the Owner with a workmanship Warranty of a minimum of 2 years providing coverage against any actual leakage caused by faulty Workmanship.
- .3 Combined material and workmanship warranties are available through the manufacture at extra fees.

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2 Products

2.1 **MEMBRANE MANUFACTURER:** Fill The Crackin Ltd.
2727 58th Ave Southeast
Calgary, AB
T2C-0B4

2.2 Materials

- .1 Hot Applied Rubberized Asphalt: Crackin-6940 as manufactured by Fill The Crackin Ltd.
- .3 Reinforcing Fabric: Polyester fabric reinforcing sheet designed for use with Hot Applied Rubberized Asphalt Systems.
- .4 Separation Sheet/Protection Course:
 - .1 A fiberglass reinforced SBS polymer asphalt sheet with sanded surfaces on both top and bottom.
 - .2 5 mils (0.12 mm) thick polyethylene or approved alternate.
- .5 Thermal Insulation: Roofmate with shiplap on all sides as manufactured by The Dow Chemical Company. Thickness as indicated on drawings.
- .6 Lite Weight Ballast: Hydrolite white with 3/8" solar reflective aggregate infill or green with washed 3/8" aggregate infill at 4 to 5lbs per sq. ft

3.1 Inspection

- .1 Ensure the sheathing is well secured and free from gaps larger than 3/16".(Note: Pressure Treated wood is NOT an acceptable substrate for use with Crackin 6940). Report any deficiencies to the designer and Fill The Crackin LTD. Do not begin application of the system until all defects have been repaired.
- .2 Ensure the deck is clean, dry and free from frost. Thoroughly clean any spills which occurred during construction (gas, oil, etc.), and ensure the deck is free from form oil and other contaminants. These will affect the adhesion of the membrane to the deck.

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3.3 Membrane Application

- .1 Heating of Crackin-6940
 - .1 Crackin-6940 must be heated in an air jacketed, indirectly fired melter equipped with a mechanically operated agitator and thermometer to register membrane temperature.
 - .2 Heat membrane in melter until it reaches between 190°C and 204°C. The temperature in the melter and during application shall not exceed 205°C (400°F).
- .2 Detail work
 - .1 Perform detail work prior to installing membrane in the field. Follow Fill The Crackin Ltd's guidelines and details. Contact Fill The Crackin Ltd where treatment of expansion joint(s) is necessary.
- .3 Field Application (Fully Reinforced)
 - .1 Apply a monolithic base coat of Crackin-6940 at a rate of 2-3mm. Using a heavy squeegee, work the membrane in to the deck to ensure it is fully bonded and free of voids and thin spots.
 - .2 While the membrane is still hot, embed the Polyester reinforcing fabric. Overlap the sides ¼".
 - .3 Apply a second monolithic coat of Crackin-6940 at a rate of 2.5-3mm. Ensure membrane is worked into the overlap in the reinforcing sheet. The fully reinforced membrane must be a minimum of 4.5mm total thickness.

3.4 Protection Course

- .1 Horizontal: While the membrane is still hot, embed the Protection Course. Overlap the sides and ends of the rolls a minimum of 2". Care must be taken to ensure that all Crackin-6940 is covered by the Protection Course on both horizontal and vertical surfaces. Additional pieces can be used to cover any membrane still exposed. The membrane can be re-heated lightly using a detail torch to ensure the Protection Course is adhered.

3.5 Insulation

- .1 Ensure the waterproofed substrate is free of debris before installing any insulation.

3.6 Lite Weight Ballast

.1 install the hydrolite over the completed insulation layout subject to the following conditions

1. All laps over adjacent sheet must be a minimum 178mm (7").

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2. Using a approved air stapler, staple all laps with staples end to end and space not greater than 100mm apart.
3. Return Hydrolite up all curbs and parapets a minimum of 178mm(7")
4. Use minimum 26 gauge metal flashings, mechanically fastened, to secure Hydrolite at curbs and parapets. Contact Fill The Crackin LTD. For approved details.
5. Broadcast aggregate infill over Hydrolite at a rate of 4-5 lbs per square foot. Agitate aggregate to bring Hydrolite blades up.

3.7 Final Inspection

- .1 Notify Fill The Crackin Ltd when installation of the system is complete to arrange a final inspection of the installation. Any deficiencies must be corrected prior to issuance of the Warranty.