

790-11EV

Environmental Grade, Hot Applied Rubberized Asphalt Waterproofing/Roofing Membrane

Physical Properties: Complies with CAN/CGSB-37.50.

-Colour	Black	-Water Vapour	3 mm (125 mils) film
-Solids Content	100%	Permeance (ASTM E96)	
-Rate of Application	Average 4.5 mm (185 mils)	Procedure A	0.6 ng/Pa.m ² .s (0.01 perms)
	Minimum 3 mm (125 mils) per single layer	Procedure E	1.25ng/Pa.m ² .s (0.02 perms)
	5 mm (215 mils) total fabric reinf. system	-Chemical Resistance	Resists water, calcium chloride, salt, mild acid and alkaline solutions. Non-resistant to oil, grease or solvents.
-Coverage	Approx. 0.73 lbs./ft ² at .125"		
-Application Temp	No limit	-Toughness	
-Min. Service Temp	Minus 49°F	-Ratio of Toughness to Peak Load	9.2J
-Heating Temp	356°F to 392°F	-Crack Bridging Capability	0.04 Min. No cracking No splitting
-Setting Time	Immediate on cooling		
-Low Temperature Flexibility and Adhesion @ Minus 13°F	No cracking No loss of adhesion No delamination	-Heat Stability	No loss of adhesion Meets Flow, Penetration
-Flow - 1/8" Film, 75 deg. angle, 5 hours @ 140°F	No flow	5h @ 390°F	Low Temp. Flex 4S
-Penetration (cone) (ASTM D1191) (0.10 mm)		-Viscosity @ 390°F	
@ 32°F	More than 10	-Fire Rating	Classified by Underwriters Laboratories Canada® & Underwriters Laboratories Inc.® for use in Class A Ballasted Systems.
@ 77°F	Less than 110		
@ 122°F	Less than 200		
-Water Absorption	Gain 0.09g		
-Flash Point (open cup)	555°F (291°C)		

Description

790-11 EV is environmentally friendly, hot applied, rubberized asphalt formulated to provide a monolithic fully bonded roofing and waterproofing membrane. It is hot poured in a single or fabric reinforced application. **790-11 EV** is composed of a specially selected blend of refined asphalts, synthetic rubber and mineral stabilizers and **contains at least 25% post consumer recycled content**. It is modified with additives to promote adhesion and improve low temperature flexibility.

Features

- Environmentally friendly
- Contains at least 25% post consumer recycled content
- Seamless application provides monolithic waterproofing.
- Bridges non-working cracks up to 1/16" in width.
- Conforms to surface irregularities.
- Full adhesion to deck restricts lateral water movement.
- 100% solids provides immediate cure on cooling.

790-11 EV Environmental Grade Hot Applied Rubberized Asphalt

Uses

Used as a waterproofing and roofing membrane on horizontal and vertical surfaces. Ideal for highway bridge decks, underground parking, ramps, podium decks, railway bridge decks, parking decks, plaza decks, tunnels, planters, reflective polls and protected roof membrane assemblies.

Limitations

Must be protected by appropriate overlay. Not intended for use as a permanently exposed surface, although it will tolerate foot and incidental, light, rubber-wheeled traffic when set. Contact **Henry Canada** when using in direct contact with coal-tar pitch derivatives or products containing coal-tar pitch. Do not heat above 419°F. Do not melt in direct fired, single-wall kettles.

Preparation

Refer to **Bakor** Waterproofing and Protected Membrane Roofing Guide Specification for detailed application information.

Acceptable substrates are cast-in-place and precast concrete, gypsum board and plywood. Joints, cracks and expansion joints must be treated as per detailed Guide Specifications. Lightweight concrete is not an acceptable substrate. Concrete toppings and cast-in-place concrete on vented metal pan decks require fabric-reinforced systems. Contact **Henry Canada** for detailed specification.

Surfaces to be treated should be reasonably smooth. Concrete should have wood float finish and be cured a minimum of 14 days. Steel float finishes are too smooth. Rough surfaces tend to promote air entrapment in the compound during application, which might result in pin holing through the waterproofing membrane. Such surfaces also require use of more material. Fabric reinforced systems overcome pin holing. Before application of hot rubberized asphalt, the substrate shall be clean and dry, free from surface water, ice, snow or frost, dust, dirt, oil, grease, curing compounds or any other foreign matter detrimental to the adhesion of the hot rubberized asphalt.

Apply **930-18 Primer** at 4 to 6 m²/l (200-300 ft²/gal.) or **910-01 Primer** at 500ft²/gal according to project requirements, avoiding an excessive or over-spraying application. Ponding of the primer is not permitted. The primer shall be dry before applying the hot rubberized asphalt. Gypsum board and plywood do not require a primer. Apply **Flashing Sheet** to all areas specified such as parapets, expansion joints, drains etc.

Application

Melt **790-11EV** in oil-jacketed kettle and bring to a temperature of 356°F to 392°F. Fabric reinforced systems consist of two applications of **790-11EV** reinforced with **Polyester Fabric**. Apply first application at minimum thickness of 2 mm (90 mils); embed fabric immediately overlapping a maximum of 1/4" ensuring full contact. Apply second application at a minimum of 3 mm (125 mils) thickness.

Protection

Both horizontal and vertical areas must be protected. **990-31 Protection Board** may be used for most applications. **Asphaltic Protection Board** must be used where asphalt paving traffic surfaces will be installed directly over the protection layer.

Clean Up

Use waterless hand cleaner on skin. Citrus based cleaners on metal and other construction surfaces.

Caution

Contact with hot asphalt or applicator will cause burns. Avoid contact with all parts of the body. Wear protective clothing at all times. USE ONLY WITH ADEQUATE VENTILATION! Avoid breathing of fumes. Asphalt fumes are an irritant, and may contain traces of hydrogen sulphide. Fumes may cause irritation to eyes, nose, throat, respiratory tract and skin. If you experience eye watering, headaches or dizziness, leave area or increase fresh air or wear respirator (NIOSH/MSHA TC23 or equal). Harmful if swallowed.

KEEP OUT OF REACH OF CHILDREN.

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