

790-11

Hot Applied Rubberized Asphalt Waterproofing/Roofing Membrane

Physical Properties: Complies with CAN/CGSB-37.50.

-Colour	Black	-Water Vapour Permeance (ASTM E96)	3 mm (125 mils) film
-Solids Content	100%	Procedure E	1.0ng/Pa.m ² .s (0.016 perms)
-Rate of Application	Average 4.5 mm (185 mils) Minimum 3 mm (125 mils) per single layer 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. 3.54 kg/m ² at 3 mm. (0.73 lbs./ft ² at 0.125")	-Toughness	16.0J
-Application Temp	No limit	-Ratio of Toughness to Peak Load	0.050
-Min. Service Temp	- 45°C (- 49°F)	-Crack Bridging Capability	pass No splitting No loss of adhesion
-Heating Temp	180°C to 200°C (356°F to 392°F)	-Heat Stability	Meets Flow, Penetration Low Temp. Flex
-Setting Time	Immediate on cooling	5h @ 390°F (200°C)	4S
-Low Temperature Flexibility and Adhesion @ Minus 25°C (Minus 13°F)	No cracking No loss of adhesion No delamination	-Viscosity @ 390°F (200°C)	Classified by Underwriters Laboratories Canada® & Underwriters Laboratories Inc.® for use in Class A Ballasted Systems.
-Flow - 3 mm (1/8") Film, 75 deg. angle, 5 hours @ 60°C (140°F)	No flow	-Fire Rating	
-Penetration (cone) (ASTM D5329) (0.10 mm) @ 25°C (77°F)	66	-Specific Gravity	1.23 +/- 0.03
@ 50°C (122°F)	155		
-Water Absorption	+0.10 g		
-Flash Point (open cup)	291°C (555°F)		

Description

790-11 is a 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** is composed of a specially selected blend of refined asphalts, synthetic rubber and mineral stabilizers. It is modified with additives to promote adhesion and improve low temperature flexibility.

Features

- Seamless application provides monolithic waterproofing
- Bridges non-working cracks up to 1.5 mm (1/16") in width
- Conforms to surface irregularities
- Full adhesion to deck restricts lateral water movement
- 100% solids provides immediate cure on cooling

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.

790-11 Hot Applied Rubberized Asphalt

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 215°C (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 can be 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 **Bakor 910-01 Primer** at 10 m²/l (500 ft²/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 **790-11** in oil-jacketed kettle and bring to a temperature of 180°C (356°F) to 200°C (392°F). Pour melted material on surface to be covered and spread to an average thickness of 4.5 mm and a minimum thickness of 3 mm using rubber squeegees. Fabric reinforced systems consist of two applications of **790-11** reinforced with **Polyester Fabric**. Apply first application at minimum thickness of 2 mm (90 mils); embed fabric immediately overlapping a maximum of 6 mm (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 mineral spirits or Xylol.

Caution

Harmful if swallowed.