



790-11

Hot Applied Rubberized Asphalt Waterproofing/Roofing Membrane

Physical Properties: Complies with CAN/CGSB-37.50.

-Color	Black	-Water Vapor Permeance (ASTM E96) Procedure E	3 mm (125 mils) film 1.0ng/Pa.m ² .s (0.016 perms)
-Solids Content	100%	-Chemical Resistance	Resists water, calcium chloride, salt, mild acid and alkaline solutions. Non-resistant to oil, grease or solvents.
-Rate of Application	Average 185 mils (4.5 mm) Minimum 125 mils (3 mm) per single layer 215 mils (5 mm) total fabric reinf. system	-Toughness	16.0J
-Coverage	Approx. 0.73 lbs./ft ² at .125"	-Ratio of Toughness to Peak Load	0.050
-Application temp.	No limit	-Crack Bridging Capability	pass No cracking No splitting
-Min. Service temp.	- 49°F	-Heat Stability	No loss of adhesion
-Heating Temp	356°F to 392°F	5h @ 390°F	Meets Flow, Penetration
-Setting Time	Immediate on cooling	-Viscosity @ 390°F	Low Temp. Flex
-Low Temperature Flexibility and Adhesion @ Minus 13°F	No cracking No loss of adhesion No delamination	-Fire Rating	4S Classified by Underwriters Laboratories Inc.® for use in Class A Ballasted Systems.
-Flow - 1/8" Film, 75 deg. angle, 5 hours @ 140°F	No flow	-Recycled Content - per ISO 14021 and LEED definitions	11% Post-consumer 37% Pre-consumer
-Penetration (cone) (ASTM D5329) (0.10 mm) @ 77°F	66	-Specific Gravity	1.23 +/- 0.03
@ 122°F	155		
-Water Absorption	+0.10 g		
-Flash Point (open cup)	555°F (291°C)		
-Maximum V.O.C.	0 grams/liter		

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 1/16" in width.
- Full adhesion to deck restricts lateral water movement.
- 100% solids provides immediate cure on cooling.

Packaging

790-11 is packaged in standard 50 lbs poly lined boxes. Poly is designed to dissolve in melter. 35 lb boxes and metal drums (approximately 500 lbs) are regionally available on made-to-order basis.

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** 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 **Henry** 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** for detailed specification.

Surfaces to be treated should be reasonably smooth. Concrete should have wood float or broom 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 200-300 ft²/gal or **Henry 910-01 Primer** at 500ft²/gal according to local VOC regulations and project requirements, avoiding an excessive or over-spraying application. Thinning of primer not permitted by VOC regulations. Puddling 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. following published guide specifications.

Application

Melt **790-11** in oil-jacketed kettle and bring to a temperature of 356°F to 392°F. Pour melted material on surface to be covered and spread to an average thickness of 185 mils and a minimum thickness of 125 mils using rubber squeegees. Fabric reinforced systems consist of two applications of **790-11** reinforced with **Polyester Fabric**. Apply first application at minimum thickness of 90 mils; embed fabric immediately overlapping a maximum of 1/4" ensuring full contact. Apply second application at a minimum of 125 mils thickness.

Protection

Both horizontal and vertical areas must be protected. **Henry modplus G100s/s** is used on horizontal surfaces. Asphaltic type protection boards must be used where asphalt paving 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

HOT ASPHALT AFTER MELTING! Contact with hot asphalt or applicator will cause burns. Avoid contact with all parts of body. Wear protective clothing at all times. **USE ONLY WITH ADEQUATE VENTILATION!** Avoid breathing fumes. Asphalt fumes are an irritant, and may contain traces of hydrogen sulfide. 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 TC 23C or equal).

KEEP OUT OF REACH OF CHILDREN.

Limited Warranty

We, the manufacturer, warranty only that this product is free of defects, since many factors which affect the results obtained from this product - such as weather, workmanship, equipment utilized and prior condition of the substrate - are all beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF WARRANTIES:** The Limited Warranty is IN LIEU OF any other warranties express or implied including but not limited to any implied warranty of MERCHANTABILITY or fitness for a particular purpose, and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise. <>