

| Physical property                                         | Typical value                                                                            | Test method |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------|-------------|
| Color                                                     | Black                                                                                    | -           |
| Solids Content                                            | 100%                                                                                     | -           |
| Application Temp                                          | No limit                                                                                 |             |
| Min. Service Temp                                         | -49 °F (-45 °C)                                                                          |             |
| Heating Temp                                              | 356 °F to 392 °F (180 °C to 200 °C)                                                      |             |
| Setting Time                                              | Immediate on cooling                                                                     |             |
| Low Temperature Flexibility & Adhesion @ -13 °F (-25 °C)  | Pass                                                                                     |             |
| Flow – 1/8" Film, 75 deg. angle, 5 hours @ 140 °F (60 °C) | No Flow                                                                                  |             |
| Penetration (cone)                                        |                                                                                          | ASTM D5329  |
| - @77 °F (25 °C)                                          | 66                                                                                       |             |
| - @122 °F (50 °C)                                         | 155                                                                                      |             |
| Water Absorption                                          | +0.10 g                                                                                  |             |
| Flash Point (open cup)                                    | 555 °F (291 °C)                                                                          |             |
| Maximum VOC                                               | 0 g/L                                                                                    |             |
| Water Vapor Permeance                                     | 0.016 perms (1.0ng/Pa.m <sup>2</sup> .s)                                                 | ASTM E96    |
| Chemical Resistance                                       | Resist's water, calcium chloride, salt, mild acid and alkaline solutions                 |             |
| Toughness                                                 | 16.0 J                                                                                   |             |
| Ratio of Toughness to Peak Load                           | 0.050                                                                                    |             |
| Crack Bridging Capability                                 | Pass                                                                                     |             |
| Heat Stability 5h @ 390 °F (198 °C)                       | Pass                                                                                     |             |
| Viscosity @ 390 °F                                        | No Loss of adhesion. Meets Flow, Penetration, Low Temp Flex                              |             |
| Fire Rating                                               | 4S<br>Classified by Underwriters Laboratories Inc.® for use in Class A Ballasted Systems |             |
| Recycled Content – per ISO 14021 and LEED definitions     | 11% Recycled Post-Consumer Content                                                       |             |
| Specific Gravity                                          | 1.23 +/- 0.03                                                                            |             |

### Description

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

### Features and benefits

Complies with CAN/CGSB-37.50-M89.

- Seamless application provides monolithic waterproofing
- Bridges non-moving cracks up to 1/16" in width
- Full adhesion to deck restricts lateral water movement
- 100% solids provide immediate cure on cooling

### Usage

**Henry 790-11** is 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 pools, and protected membrane roofing assemblies.

### Application

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

**Surface Prep:** Acceptable substrates are cast-in-place and precast concrete, CMU, gypsum board and plywood. Joints, cracks, and expansion joints must be treated as per detailed Guide Specifications. Lightweight insulating 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.

**Application:** Apply **Henry 930-18 Primer** at 200-300 ft<sup>2</sup>/gal or **Henry 910-01 Primer** at 200-300 ft<sup>2</sup>/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 material to all areas specified such as parapets, expansion joints, drains, etc. following published guide specifications.

Melt **Henry 790-11** in oil-jacketed kettle and bring to a temperature of 356 °F – 392 °F (180 °C – 200 °C). Pour melted material on surface to be covered and spread to an average thickness of 185 mils (4.5mm) and minimum thickness of 125 mils (3mm) using rubber squeegees. Fabric reinforced systems consist of two applications of **Henry 790-11** reinforced with **Polyester Fabric**. Apply first application at minimum thickness of 90 mils (2mm); embed fabric immediately, overlapping a maximum of ¼" (6mm) ensuring full contact. Apply second application at a minimum of 125 mils (3mm) thickness.

**Protection:** Both horizontal and vertical areas must be protected. **Henry modifiedPLUS G100s/s** is used on horizontal surfaces. Contact Henry Technical Support if asphalt pavement will be installed over **Henry 790-11**. Additional acceptable protection boards for non-asphalt paving applications include **Henry 990-31 Protection Board** or **Henry Drain Boards**.

### Rate of Application:

Average 185 mils (4.5 mm), Minimum 125 mils (3 mm) per single layer.  
215 mils (5mm) total with fabric reinforcement.

Coverage – approximately 0.73 lbs/ft<sup>2</sup> at .125"

### Limitations

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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. Do not heat above 419 °F (215 °C). Do not melt in direct fired, single-wall kettles.

**NOTE:** 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 track, and skin.

If you experience eye watering, headaches, or dizziness leave area or increase fresh air or wear a respirator (**NIOSH/MSHA TC 23C** or equal)

Keep out of reach of children.

### Clean Up

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

## Henry 790-11 Hot Applied Rubberized Asphalt

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### Product size/packaging

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Henry 790-11 is packaged in standard 50 lb (23 kg) poly lined boxes. Poly is designed to dissolve in melter.

### Storage

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Store under dry, covered, ventilated conditions and out of direct sunlight with temperatures not to exceed 100 °F (38 °C).

### Caution

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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 breathings 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 a respirator (NIOSH/MSHA TC 23C or equal).

For more information, visit [www.henry.com](http://www.henry.com) or for technical assistance call us at 800-486-1278. For more information on the Henry® product warranty and liability disclaimer please visit [www.henry.com/warranty](http://www.henry.com/warranty). Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at [www.henry.com](http://www.henry.com) or by emailing Henry® Product Support at [productsupport@henry.com](mailto:productsupport@henry.com) or by calling 800-486-1278.

Henry is a registered trademark of Henry Company.

Covered by US patent 6,901,712; Canadian patent 2,413,550.

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