



COLPHENE H

COLPHENE H (HOT APPLIED RUBBERIZED ASPHALT)

Order No. W402*

DESCRIPTION

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

USE & APPLICATION

COLPHENE H is designed to be used in horizontal and vertical waterproofing of plazas and decks, planters, tunnels, underground vaults, bridges, foundation walls and parking garages. COLPHENE H is typically applied to concrete.

COLPHENE H is softened in a double-jacketed, hot air or oil bath melter with mechanical agitation, specifically designed for heating rubberized asphalt. COLPHENE H should be brought to a constant temperature of 350° F to 400° F (176.6° to 204.4° C). Take caution as to not overheat COLPHENE H. Overheating will cause COLPHENE H to cross-link and line the walls of the melter, adversely affecting the equipment and the material performance properties.

FEATURES & BENEFITS

- Monolithic, seamless application
- Excellent adhesion properties restricts lateral movement of water beneath membrane
- Environmentally friendly
- Conforms to irregular surfaces and accommodates minor deck flaws
- Bridges non-working cracks up to 1/16" (1.5 mm) in width
- Cold flow properties allow for self healing of minor construction damage
- 100% solids content with no solvents and no VOC restrictions
- May contribute to LEED credits

COVERAGES

Product/ Property	Colphene H
Description	hot applied rubberized asphalt
Installation	rubber squeegee
Application - Non-reinforced	180 mils (4.5 mm) @ 1.2 lbs/ft ² (5.86 kg/m ²)
Application - Reinforced	90 mils (2.25 mm) @ 0.6 lbs/ft ² (4.39 kg/m ²) one layer of Sopra-Flash R 125 mils (3.1 mm) @ 0.9 lbs/ft ² (2.93 kg/m ²)
Protection Sheet	Elastophene Sanded (typical)



PHYSICAL PROPERTIES

Property	Test Method	Test Values	Test Result
Flash Point	CGSB-37.50-M89	500° F (260° C), min	Pass
Low Temperature Crack Bridging Capacity	CGSB-37.50-M89 & ASTM D 92	No cracking, splitting, or adhesion loss	Pass
Water Vapor Permeability	CGSB-37.50-M89 ASTM E 96	1.7ng/Pa.m ² s	Pass
Water Resistance 50° C (122° F) for 4 days	CGSB-37.50-M89 & ASTM D 92	No delamination, blistering, emulsification, deterioration, or pinholes	Pass
Water Absorbtion	CGSB-37.50-M89	Loss of mass: 0.18, max Gain of mass: 0.35, max	Pass
Toughness	CGSB-37.50-M89	5.5 J	Pass
Ratio of Toughness to Peak Load	CGSB-37.50-M89	0.040 minimum	Pass
Viscosity	CGSB-37.50-M89	2-15 seconds	Pass
Heat Stability	CGSB-37.50-M89	No change in viscosity, penetration, flow, or low temperature flex	Pass
Low Temperature Flexibility & Adhesion	CGSB-37.50-M89	No cracking, delamination, or adhesion loss	Pass
Penetration (units)	CGSB-37.50-M89	110 @ 77° F (25 °C), max 200 @ 122° F (50 °C), max	Pass
Softening Point	ASTM D 36	180° F (83° C), min	Pass
Solids Content	CGSB-37.50-M89	100%	Pass

APPROVALS

See Underwriters Laboratories Inc. File #R11436, ICC/ES, Miami-Dade County or Florida Building Code Product Approval Listings for current Approved Roof Assembly combinations.

PACKAGING

Standard 35 pound boxes.

LIMITATIONS

- Do not overheat COLPHENE H; membrane temperatures are not to exceed 415° F (213° C)
- Do not melt COLPHENE H in direct fired, single-wall kettles
- Do not install COLPHENE H over lightweight concrete without prior written permission from the Soprema Technical Department
- If COLPHENE H will come in direct contact with coal tar pitch, contact Soprema
- COLPHENE H should not be left exposed; it must be protected by an appropriate overlay

WARRRANTY

Contact your local Soprema representative for project warranty offerings.