

Colphene H

Hot Applied, Seamless, Rubberized Asphalt Membrane



*The Building
Envelope
Company*

Colphene H is a hot applied, rubberized asphalt membrane used in waterproofing applications. The formulation is a balance of rubber, asphalt and various inert fillers. Colphene H requires heating in an oil-jacketed kettle and is installed in a hot liquid form by squeegee.

Colphene H is used in waterproofing of plazas, decks, planters, tunnels, underground vaults, bridges and parking decks.



On most surfaces, non-reinforced application requires a membrane thickness of 180 mils or 1.2 lbs of material per square foot.



Colphene HR (reinforced system):

A base coat of 90 mils is installed over the primed deck. The polyester reinforcement is set into the base coat and followed by a top coat of 125 mils.

Colphene H Features:

- Monolithic seamless application
- Bonded to substrate
- Self-healing
- 100% solids, waterproof as soon as applied
- Easy to install
- Self-flashing
- Proven performance



Colphene H Details:

All Colphene H details require reinforcement. Up turns and down turns are reinforced with Colphene UN.

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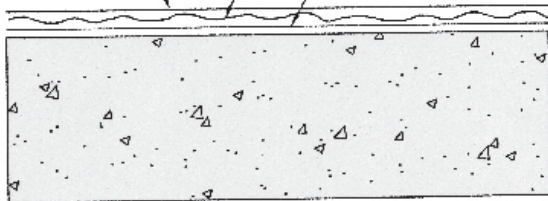


Colphene H Standard Assembly

Colphene S or other approved protection sheet

180 mils Colphene H

Prime Deck Elastocol 500



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Colphene HR (reinforced) Heavy Duty Assembly

Colphene S or other approved protection sheet

125 mils Colphene H

Colphene-Flash R (reinforcement)

90 mils Colphene H

Prime Deck Elastocol 500



NOTE: Heavy duty assembly will require 1.5 lbs of Colphene H per sq ft of deck area, for an average thickness of 215 mils.

Physical Properties

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|--|---------------------------------|--|
| Flash Point | CGSB-37.50-89M ASTM D 92 | 620° F (327° C) |
| Penetration | CGSB-37.50-89M ASTM D 1192 | @77° F (25° C) 80, @122° F (50° C) 155 |
| Flow 140° F (60° C) | CGSB-37.50-89M ASTM D 1192 | @1.0 mm (3.0 maximum) |
| Elasticity/Ratio of toughness to peak load | CGSB-37.50-89M | Min. toughness of 11.7 J |
| Water Vapor Permeability | CGSB-37.50-89M ASTM E 96 Pro. E | .18 ng/pa.s.m ² (1.7 maximum) |
| Water Absorption | CGSB-37.50-89M | .22 g gain |
| Low Temperature Flexibility 77° F (-25° C) | CGSB-37.50-89M | No delamination, adhesion loss, cracking |
| Low Temperature Crack Bridge Capacity 77° F (-25° C) | CGSB-37.50-89M | No cracking, adhesion loss, splitting |
| Heat Stability (5 hrs/max recommended heat temp.) | CGSB-37.50-89M | No change in viscosity, penetration flow or low temperature flexibility after aging. |
| Viscosity | CGSB-37.50-89M | 4 seconds |
| Specific Gravity | | 1.20 |
| Softening Point | ASTM D 36 | 181° F (83° C) |
| Min. Ambient Temperature for Application | | 0° F (-18° C) |
| Solids Content | CGSB-37.50-89M | 100% Solid, No Solvents |

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