COLPHENE® H-EV

Hot-applied Rubberized Asphalt Waterproofing Membrane

APPLICATIONS

WATERPROOFING

FOUNDATIONS

PRODUCT NUMBERS:

- W607 - **30 lb (22.7 kg) Carton**

DESCRIPTION & FEATURES:

COLPHENE H-EV is a 100% solid thermoplastic polymer modified rubberized bitumen which forms a completely monolithic, waterproofing barrier. Unlike COLPHENE H, **COLPHENE H-EV** has 25% recycled material. **COLPHENE H-EV** is a versatile membrane that can be used in plaza decks, bridges, foundations and other below-grade structures.

- Can be applied in all seasons, even in very cold weather (down to -18°C)
- 100% solids content, which allows it to harden quickly
- Exhibits excellent elastomeric properties in both hot and cold weather

EQUIPMENT:

COLPHENE H-EV is heated using a double-jacketed oil-bath melter with mechanical agitation specifically designed for heating rubberized asphalt waterproofing membranes. An air jacketed melter is also acceptable. Melter must be capable of maintaining the material temperature between 380 and 400°F (177 to 204°C), and oil-bath temperature at approximately 500 (260°C). Targeting not to exceed four hours at 400°F of **COLPHENE H-EV** in the melter. Direct-fired melters are not recommended. Add **COLPHENE H-EV** to maintain the melter at 3/4 capacity at all times.

Overheating of **COLPHENE H-EV** will lead to cross-linking that will adversely affect the equipment and the material performance properties.

APPLICATION:

HOT MOPPED

SQUEEGEE

COLPHENE H-EV is applied to the approved area via mop or squeegee.

> Refer to SOPREMA's published technical literature for additional details and application requirements.

CLEANUP:

Cooled material can be removed mechanically and with hydrocarbon solvents such as xylene or mineral spirits.

STORAGE:

Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture. Pallets of **COLPHENE H-EV** should not be double stacked. **COLPHENE H-EV** is a combustible material and should be kept away from open flames and other possible ignition sources during storage and use.

LIMITATIONS

- Not to be applied to damp or wet substrates.
- Concrete should be allowed to cure a minimum of 28 days prior to application.

TESTING & APPROVALS:

FM APPROVED

UL CLASSIFIED

FLORIDA BUILDING CODE
FL14215

MIAMI-DADE COUNTY APPROVED
NOA 2004-14.05

LA DBS
DEPARTMENT OF BUILDING AND SAFETY
LARR 26088
LARR 26101

WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.

SOPREMA®

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COVERAGE RATE

COVERAGE RATES*	
THICKNESS mil (mm)	CONSUMPTION lb/ft² (kg/m²)
90 (2.3)	0.565 (2.75)
125 (3.2)	0.785 (3.8)
215 (5.5)	1.35 (6.6)

* Coverage rates are configured for single coat coverage over a smooth substrate.

TECHNICAL INFORMATION & TESTING:

PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
Technology	Thermoplastic polymer modified bitumen	-
Color	Black	-
Solids content	100	ASTM D1353
Flow @ 140°F (60°C), mm	0	CGSB-37.50-M89
Cone penetration @ 77°F (25°C), mm	80	CGSB-37.50-M89
Cone penetration @ 122°F (50°C), mm	155	CGSB-37.50-M89
Toughness, joule	12	CGSB-37.50-M89
Toughness to peak load ratio, min	0.060	CGSB-37.50-M89
Water vapor transmission, perm	0.013	ASTM E96
Water absorption, 120 hours @ 122°F (50°C), g	Weight gained 0.12	CGSB 37.50-M89
Adhesion	Pass	CGSB 37.50-M89
Low temperature flexibility @ -13°F (-25°C)	Pass	CGSB 37.50-M89
Low temperature crack bridging @ -13°F (-25°C)	Pass, 10 cycles	CGSB 37.50-M89
Heat stability, 5 hours	Pass	CGSB-37.50-M89
Water resistance	No delamination, blistering, emulsification, or deterioration	CGSB 37.50-M89
Acid resistance	50% Nitric, 50% Sulfuric w/o blistering, deterioration, delamination or re-emulsification	ASTM D896
Salt water resistance	Pass	ASTM D896
Fertilizer resistance	Pass	ASTM D896
Flash point, °F (°C)	600 (315.5)	ASTM D92
Softening point, °F (°C)	181 (83)	ASTM D36
Recommend application temperature, °F (°C)	380 - 400 (193 - 204)	-
Viscosity, seconds	6	CGSB 37.50-M89
VOC content, g/L	0	ASTM D2369

* Data is represented by average values, unless noted otherwise.

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