



# SURE-SEAL HP PROTECTIVE MAT

## DESCRIPTION

Carlisle Sure-Seal HP Protective Mat is a nominal 6.0 ounce per square yard (140 grams per square meter) UV resistant polypropylene needle punched fabric. HP Mat can be used above the membrane as a slipsheet for crushed stone or pavers or below the membrane as a minimum underlayment mat for Carlisle's Mechanically-Fastened or Ballasted System applications. Consult current specifications for underlayment requirements.

## APPLICATION

### BALLASTED APPLICATION

#### SURE-SEAL HP PROTECTIVE MAT PLACEMENT:

- When specified under EPDM membrane**, position Sure-Seal HP Protective Mat loosely over the substrate with all edges overlapped a minimum of 6" (150 mm). The EPDM membrane must be positioned to completely cover the previously installed HP Protective Mat.
- When required above EPDM membrane** under the pavers or crushed stone, position Sure-Seal HP Protective Mat loosely over the membrane after completing all membrane and flashing splices. Adjacent edges must be overlapped a minimum of 6" (150 mm); end rolls must overlap 12" (300 mm). Prior to placement of ballast, extend the Sure-Seal HP Protective Mat a minimum of 2" (50 mm) above the anticipated ballast level at the perimeter and penetrations except the roof drains and scup-

pers. The fabric must extend to drain bases and scupper openings but must not cover or restrict flow to the drains. Additional matting must be installed around penetrations to prevent direct contact between crushed stone and flashing. **Note:** Following placement of the fabric, install ballast, temporary ballast, or spot adhere with bonding adhesive to prevent the movement or displacement of unballasted fabric.

### MECHANICALLY-FASTENED APPLICATION

#### SURE-SEAL HP PROTECTIVE MAT PLACEMENT:

- When specified under EPDM membrane**, install Sure-Seal HP Protective Mat over the substrate with all edges overlapped a minimum of 3" (75 mm). HP Protective Mat must be fastened to the roof deck; however, on Mechanically-Fastened Systems, the seam fastening plates used to secure the membrane will provide adequate fastening for the mat. When the mat is not secured with the seam fastening plates used to secure the membrane, an acceptable fastener and plate must be installed every 50 linear feet (15 m). Spot bonding the HP Protective Mat with bonding adhesive is an acceptable alternative to mechanical fastening.

## CAUTIONS AND LIMITATIONS

This product is not hazardous as defined in CFR 1910.1200. Dust may be irritating to respiratory tract and eyes. Material is flammable. Do not expose to open flame.

## TECHNICAL DATA

		<b>15' x 300' (4.6m x 92m)</b>	
Area/Roll		4500 ft <sup>2</sup> (405 m <sup>2</sup> )	
Weight/Roll		210 lbs. (83 Kg)	
Thickness		.065 in. (1.65 mm)	
Roll Diameter		18 in. (460 mm)	
	<b>ASTM</b>		<b>Average</b>
	<b>Test Method</b>		<b>Roll Values</b>
Tensile Strength (Grab)	D 4632		160 lbs. (68 Kg)
Burst Strength (Mullen)	D 3786		350 psi (2413 kPa)
Elongation (Ultimate)	D 4632		> 50%
Puncture Strength	D 4833		90 lbs. (41 Kg)
Trapezoidal Tear	D 4533		65 lbs. (30 Kg)
UV Resistance (500 Hr St. Ref)	D 4355		> 70%
Permeability Coefficient	D 4491		0.2 cm/sec
pH Resistance			2 - 13

## LIMITED WARRANTY

CARLISLE COATINGS & WATERPROOFING INCORPORATED (CARLISLE) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any CARLISLE materials prove to contain manufacturing defects that substantially effect their performance, CARLISLE will, at its option, replace the materials or refund its purchase price.

This limited warranty is the only warranty extended by CARLISLE with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. CARLISLE specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of CARLISLE'S liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the CARLISLE material in question.

