

StudLiner is a high density polyethylene (HDPE) concrete protection product that protects against chemical and mechanical damage to concrete structures. StudLiner is manufactured with approximately 110 studs per square foot to guarantee high pullout strength and provide excellent stress distribution during temperature changes and pressure build-up. StudLiner can be installed over an exposed surface of a new or existing concrete structure, and it will provide a life expectancy that is five times greater than that of an unprotected structure. The product is also available in either a gray or black color, and in a variety of sizes to fit your specific application.

PRODUCT SPECIFICATIONS

TESTED PROPERTY	TEST METHOD	FREQUENCY	NOMINAL VALUE			
Thickness, mm	ASTM D 5199	Every 5th roll	2.00	3.00	4.00	5.00
Density, g/cm ³	ASTM D 1505	1/100,000 ft ²	0.94	0.94	0.94	0.94
Tensile Properties (each direction)	ASTM D 6693, Type IV	1/100,000 ft ²				
Strength at Yield, lb/in ²	Dumbbell		2,200	2,200	2,200	2,200
Elongation at Break, %	G.L. = 2.0 in		500	500	500	500
Stud Pull-Out Strength ⁽¹⁾ , lb/ft ²		1/product	>14,000	>14,000	>14,000	>14,000
Carbon Black Content/Pigment Content, %	ASTM D 1603*/4218	1/100,000 ft ²	2-3	2-3	2-3	2-3
Black (carbon)	ASTM D 5630,		1.5-2.5	1.5-2.5	1.5-2.5	1.5-2.5
Gray (pigment)	Modified					
Carbon Black Dispersion ²	ASTM D 5596	1/formulation	Note ⁽²⁾	Note ⁽²⁾	Note ⁽²⁾	Note ⁽²⁾
Notched Constant Tensile Load, hours	ASTM D 5397	1/product	400	400	400	400
Coefficient of Linear Thermal Expansion, per °C	ASTM D 696	1/product	1.20E-04	1.20E-04	1.20E-04	1.20E-04
Low Temperature Brittleness, °C	ASTM D 746	1/product	-77	-77	-77	-77
Dimensional Stability, % (each direction)	ASTM D 1204	1/product	±1.0	±1.0	±1.0	±1.0
Water Absorption, %	ASTM D 570	1/product	0.1	0.1	0.1	0.1
Water Vapor Transmission, (g/m ² /day)	ASTM E 96	1/product	<0.01	<0.01	<0.01	<0.01
TYPICAL ROLL DIMENSIONS						
Roll Width, ft			8	8	8	8
Roll Length, ft			246	213	196	196
Roll Area, ft ²			1,968	1,704	1,568	1,568

NOTES:

- ⁽¹⁾ Note: Concrete must have compressive strength of at least 5,000 lb/in².
- ⁽²⁾ Note: Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from category 3.
- * Modified.

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification. REV 01OCT2015