POLY-TUFF SYSTEMS INTERNATIONAL

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PSI Tech-Note

Coatings and Liquid Membrane Sloping Theoretical Coverage Rates

Sloping Calculation: This sloping calculation assumes the "average" slope is the deepest fill thickness to a featheredge. In order to calculate average slope find the take the deepest fill area and divide the number of inches by 2 to find the "average" slope.

The formula is L'x 12" x W' x 12 inches x (average slope) = cubic inches ÷ 231 cubic inches ÷ 2 = gallons of coating to purchase. Example a deck that is 7ft x 10ft = 70 sq/ft deck that needs to be slope an average of ½" 7ft x 12" x 10 x 12" x ½" (or 0.50) = 5040 cubic inches ÷ 231(cubic inches p/gallon) = 21.8 gallons. At least half of the mix will be sand and water, so the necessary purchase of coating is 10.5 gallons.

General Coverage Rates

English Wet Mil Coverage Rates		Metric Coverage Rates		
Wet Mils	Sq.Ft./Per/Gal	Millimeters Wet	M^2/Liter	M^2/U.S. Gal
215	7.5	5.5	0.19	0.70
150	10	3.0	0.32	1.21
90	18	2.3	0.44	1.67
65	24.5	1.7	0.60	2.28
60	27	1.5	0.66	2.51
55	29	1.4	0.66	2.51
50	32	1.3	0.79	2.98
30	53	0.8	1.30	4.93
25	64	0.6	1.57	5.95
20	80	0.5	1.97	7.44
15	107	0.4	2.63	9.95
10	150	0.3	3.69	13.95

The theoretical mil thicknesses and coverage rates shown are based on smooth and does not take into account textures and irregular surfaces. Mock-ups should be constructed on surfaces to determine the exact amount of coating necessary to provide and the desired protective membrane thickness. Please review product data sheets in the product data sheet section of the Poly-Tuff Binder or at www.polytuffus.com. Fell free to consult the related data sheet or call 866.977.8833 for further information.

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