

TECH-TALK BULLETIN

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Supersedes all previous versions

Coatings and Sealants

This Tech-Talk is intended as a guide for the use and estimation of fluid applied coatings, membranes and sealants. The calculations contained herein are theoretical and generally do not take into account substrate condition or the experience of the applicator. Please adjust as your experience requires.

Definitions

WFT Wet Film Thickness or the thickness as applied wet prior to any drying or shrinkage

DFT Dry Film Thickness or the thickness after the coating is fully cured.

Mil The most common Imperial unit of measure for coatings is equivalent to 1 thousandth of

an inch which equals 25.4 microns or 25.4 µ.

Micron Metric unit of measure for coatings or thin films, also known as the Micrometre or µ

which equals 0.001 mm or 0.000039 inch or 0.039 mil. Metric measurements in

millimeters are more common for air barrier membranes.

LF A linear foot is a unit of length. It is commonly given in reference to a given width or

other unit.

SBV Solids by Volume can be found on technical data sheets and will vary by product.

SBW Solids by Weight requires conversion to SBV in order to be useful for these calculations.

Theoretical Coverage

$$\frac{\% \text{ SBV x 1604}}{\text{ft}^2 / \text{ US gal}} = \frac{\% \text{ SBV x 1000}}{\text{DFT (mils)}} \text{ or } \frac{\text{SBV x 1000}}{\text{DFT (microns)}}$$

Practical Coverage

Theoretical Coverage - (Theoretical Coverage x % Loss)

Consumption

Area (ft ² or m ²)		
Practical Coverage (gallons or liters)		

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Coatings "Rate of Use" Thickness Chart, Wet Film Thickness

US Metric

Coatings	Coatings	Coverage Sq. Feet Per	
Thickness	(thousands)	Gallon	
Inches	Mil Thickness	Area	
0.001	1	1,604	
0.002	2	802	
0.005	5	320.8	
0.007	7	229.1	
0.01	10	160.4	
0.015	15	106.9	
0.016	16	100.0	
0.02	20	80.2	
0.03	30	53.5	
1/32"	31.25	51.3	
0.04	40	40.1	
0.05	50	32.1	
1/16"	62.5	25.7	
1/8"	125	12.8	
0.15	150	10.7	
0.175	175	9.2	
3/16"	187	8.6	
0.2	200	8	
0.225	225	7.1	
1/4"	250	6.4	

Coatings Thickness	Coatings	Coverage Sq. Meter Per Liter		
mm	Micron	Area		
0.1	100	10.0000		
0.125	125	8.0000		
0.15	150	6.6667		
0.2	200	5.0000		
0.25	250	4.0000		
0.5	500	2.0000		
0.6	600	1.6667		
0.7	700	1.4286		
0.8	800	1.2500		
0.9	900	1.1111		
1	1000	1.0000		
2	2000	0.5000		
2.5	2500	0.4000		
3	3000	0.3333		
3.5	3500	0.2857		
4	4000	0.2500		
4.75	4750	0.2105		
5	5000	0.2000		
5.75	5750	0.1739		
6.35	6350	0.1575		

Convert Film Thickness

FROM TO CALCULATE

Wet film thickness Dry film thickness DFT = WFT x %SBV Dry film thickness Wet film thickness WFT = DFT \div %SBV



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Sealant Coverage Chart

	LF per			
Joint Size	10.3 oz Tube	20 oz Sausage	30 oz Tube	Gallon
1/8 X 1/8	102.7	192.5	308	1232
1/8 X 1/4	51.3	96.3	154	616
1/8 X 3/8	34.2	64.2	102.7	410.7
1/8 X 1/2	25.7	48.1	77	308
1/8 X 5/8	20.5	38.5	61.6	246.4
1/8 X 3/4	17.1	32.1	51.3	205.3
1/8 X 7/8	14.7	27.5	44	176
1/8 X 1	12.8	24.1	38.5	154
1/4 X 1/4	25.7	48.1	77	308
1/4 X 3/8	12.8	32	51.3	205
1/4 X 1/2	12.8	24.1	38.5	154
1/4 X 5/8	10.3	19.3	30.8	123.2
1/4 X 3/4	8.6	16	25.7	102.7
1/4 X 7/8	7.3	13.8	22	88
1/4 X 1	6.4	12	19.3	77
3/8 X 3/8	11.4	21.4	34.2	136.9
3/8 X 1/2	8.6	16	25.7	102.7
3/8 X 5/8	6.8	12.8	20.5	82.1
3/8 X 3/4	5.7	10.7	17.1	68.4
3/8 X 7/8	4.9	9.2	14.7	58.7
3/8 X 1	4.3	8	12.8	51.3

	LF per			
Joint Size	10.3 oz Tube	20 oz Sausage	30 oz Tube	Gallon
1/2 X 1/2	6.4	12	19.3	77
1/2 X 5/8	5.1	9.6	15.4	61.6
1/2 X 3/4	4.3	8	12.8	51.3
1/2 X 7/8	3.7	6.9	11	44
1/2 X 1	3.2	6	9.6	38.5
5/8 X 5/8	4.1	7.7	12.3	49.3
5/8 X 3/4	3.4	6.4	10.3	41.1
5/8 X 7/8	2.9	5.5	8.8	35.2
5/8 X 1	2.6	4.8	7.7	30.8
3/4 X 3/4	2.9	5.3	8.6	34.2
3/4 X 7/8	2.4	4.6	7.3	29.3
3/4 X 1	2.1	4	6.4	25.7
7/8 X 7/8	2.1	3.9	6.3	25.1
7/8 X 1	1.8	3.4	5.5	22
1 X 1	1.6	3	4.8	19.3

Notes: 128 oz per Gal

Approx. 12ea 10.3 oz tubes per gallon

1 ft = 0.305 m 1/8 in = 3.175 mm 1 oz = 29.57 ml

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Disclaimer

The conversion charts are provided for your personal use. You must verify that the values calculated are accurate and suitable for your application.

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For Additional Information Contact:

Henry Product Support 1-800-486-1278 ProductSupport@henry.com