

## COATING COVERAGE CALCULATIONS

### Theoretical Coverage (on a smooth surface)

$$\text{ft}^2/\text{U.S. gal} = \frac{\% \text{ SBV}/100 \times 1604}{\text{dft (mils)}}$$

$$\text{m}^2/\text{liter} = \frac{\% \text{ SBV}/100 \times 1000}{\text{dft (microns)}}$$

### Practical Coverage

$$\text{Theoretical Coverage} - \frac{\text{Theoretical Coverage} \times \% \text{ Loss}}{100}$$

### Consumption

$$\frac{\text{Area (ft}^2 \text{ or m}^2\text{)}}{\text{Practical Coverage (gallons or liters)}}$$

### Film Thickness

$$\text{Wet to Dry} \quad \frac{\text{wft} \times \% \text{ SBV}}{100}$$

$$\text{Dry to Wet} \quad \frac{\text{dft} \times 100}{\% \text{ SBV}}$$

### % Solids by Volume and Wet Film Thickness Adjustments Due to Thinning

$$W = \frac{X}{1 + Y}$$

$$A = \frac{Z}{W}$$

A = adjusted WFT required for thinned material  
W = adjusted % solids by volume due to thinning  
X = original materials % solids by volume  
Y = % thinner added  
Z = required dry film thickness