KORTEC
Efficient Coating Systems

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Calculation Tables

Connection between the construction's weight and its surface area

Steel thickness (mm)	1	2	3	4	5	6	7	8	9	10	15	25	50
Surface in m^2/mt steel	254	127	85	63	51	42	36	32	28	25	17	10	5

Calculation Formulae

Solid by volume. %	=	$\frac{\text{Dry film} \times 100}{\text{Wet film}}$
Wet film in microns	=	$\frac{\text{Dry film} \times 100}{\text{Solid by Vol. \%}}$
Dry film in microns	=	$\frac{\text{Wet film} \times \text{solid by Vol. \%}}{100}$
Theoretical spreading rate, m^2/ltr	=	$\frac{10 \times \text{Solid by Vol. \%}}{\text{Dry film in microns}}$
Theoretical cost/m^2	=	$\frac{\text{Dry film in microns} \times \text{ltr. Price}}{10 \times \text{Solid by Vol. \%}}$
Weight of dry film, gm/cm^2	=	$\frac{\text{Weight of dry film} \times \text{Solid by weight \%}}{\text{Solid by Vol. \%}}$
Weight/m^2 of dry paint film, kg/m^2	=	$\frac{\text{Dry film(microns)} \times \text{wt of dry film} \times \text{Solid by weight \%}}{1000 \times \text{Solid by Vol. \%}}$
Price/m^2	=	$\frac{\text{Dry film} \times \text{Price/Ltr.}}{10 \times \text{Solid by Vol. \%}}$
Theoretical paint consumption, ltr.	=	$\frac{\text{Dry film in microns} \times \text{area } (m^2)}{10 \times \text{Solid by Vol. \%}}$
Paint consumption with loss	=	$\frac{\text{Dry film} \times \text{area } (m^2)}{10 \times \text{Solid by Vol. \%} \times \text{loss factor}}$