Patterson Protective Coatings Limited

Calculation Tables

Connection between the construction's weight

and its surface area

Steel thickness (mm)
Surface in m2/mt steel

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 15
 25
 50

 254
 127
 85
 63
 51
 42
 36
 32
 28
 25
 17
 10
 5

Calculation Formulae		
Solids by volume. %	=	Dry film x 100 Wet film
Wet film in microns	=	Dry film x 100 Solid by Vol. %
Dry film in microns	=	Wet film x solid by Vol. % 100
Theoretical spreading rate, m2/ltr	=	10 x Solid by Vol. % Dry film in microns
Theoretical cost /m2	=	Dry film in microns x ltr. Price 10 x Solid by Vol. %
Weight of dry film, gm/cm2	=	Weight of dry film x Solid by Weight % Solid by Vol. %
Weight/m2 of dry paint film, kg/m2	=	Dry film (microns) x wt of dry Film x Solid by weight % 1000 x Solid by Vol. %
Price/m2	=	Dry film x Price/Ltr 10 x Solid by Vol. %
Theoretical paint consumption, ltr	=	Dry film in microns x area (m2) 10 x Solid by Vol. %
Paint consumption with loss	=	Dry film x area (m2) 10 x Solid by Vol. % x loss factor

LOSS FACTOR

30% loss = 0.7

20% loss = 0.8

10% loss = 0.9