

Coverage of the Rust Anode® product *****

Theoretical figure

$$\text{Number m}^2 / \text{liter} = \frac{\% \text{ Volume dry extract} \times 10}{\text{Dry film thickness in micron } (\mu\text{m})}$$

$$\text{Number m}^2 / \text{kg} = \frac{\% \text{ Volume dry extract} \times 10}{\text{Dry film thickness in micron } (\mu\text{m})} \times \frac{1}{\text{density}}$$

Rust-Anode : dry extract 54.8% (in volume)
: density 3,15 kg/ dm³

Example:

The theoretical coverage of 1kg liquid product at 40µm dry film (DFT) is:
 $(54,8 \times 10) / 40 \times (1 / 3,15) = 4,35 \text{ m}^2 / \text{kg}$
 or a consumption of : $1 / 4,35 = 0,23 \text{ kg} / \text{m}^2$

Practical figure

The practical coverage depends of several elements e.g. the shape of the object, the roughness of the surface, the real film thickness, the way of application, etc.
 The practical coverage with low pressure application is often estimated at 75% of the theoretical coverage.

Practical figure for coverage and consumption

Dry film thickness DFT	Wet thickness	<u>Theoretical coverage</u>	<u>Theoretical consumption</u>
40 µm	54 µm	<u>4,35 m²/kg</u>	<u>0,23 kg/m²</u>
60µm	80 µm	<u>2,90 m²/kg</u>	<u>0,35 kg/m²</u>
80µm	107 µm	<u>2,18 m²/kg</u>	<u>0,46 kg/m²</u>
100µm (60+40µm)	2 layers	<u>1,74 m²/kg</u>	<u>0,58 kg/m²</u>
120µm (2x 60µm)	2 layers	<u>1,45 m²/kg</u>	<u>0,69 kg/m²</u>
160µm (2x 80µm)	2 layers	<u>1,09 m²/kg</u>	<u>0,92 kg/m²</u>