Wet and Dry Film Thickness Formulae

Easily convert and calculate the wet and dry film thickness and coverage of coatings applied to a substrate. Usually the percentage of solids by volume in a coating will be known. Please check the instructions for use of the coating or the ‘Material Safety Data Sheet’ (MSDS).

Below are the formulations regarding the wet film and dry film with the volume solids.

**Wet Film Thickness** = \( \frac{\text{Dry Film Thickness}}{\text{Volume Solids}*} \)

Example: What is the wet film thickness, if you want to achieve 100 microns’ dry film and the volume solids are 62%, for Ultrimax 1 Compliant? ...

\[
\frac{100}{0.62} = 161 \text{ microns Wet Film Thickness}
\]

**Dry Film Thickness** = **Wet Film Thickness** x **Volume solids***

Example: What is the dry film thickness, if you want 162 microns’ wet film for Ultrimax 1 Compliant? ...

\[
161 \times 0.62 = 100 \text{ microns Dry Film Thickness}
\]

**Volume Solids*** = \( \frac{\text{Dry Film Thickness}}{\text{Wet Film Thickness}} \)

Example: What are the volume solids for Ultrimax 1 Compliant, if the wet film thickness is 161 microns and the dry film thickness is 100 microns? ...

\[
\frac{100}{161} = 0.62 \text{ Volume Solids}
\]

*Volume solids should be expressed as a decimal less than 1. E.g. 62% = 0.62

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