



Technical Data Sheet

# DEUTERON WAX TF

PTFE modified PE Wax

**Deuteron**<sup>®</sup>  
ADDITIVES TO YOUR SUCCESS

## ■ Product Characteristic

Appearance	white powder
Density	approx. 1.01 g/cm <sup>3</sup>
PE-Melting point	122 °C
Particle size	approx. 5.5 µm



## ■ Product Description

Deuteron Wax TF is a micronized PTFE (polytetrafluorethylene) modified PE (Polyethylene) wax for excellent surface protection and slip reduction. The combination of PTFE and PE leads to a synergistic effect in terms performance and dispersibility. Deuteron Wax TF is a universal product that can be used in solvent based, water based and 100 % (e.g. UV curable) systems.

## ■ Applications

Deuteron Wax TF is suitable for a wide range of applications including:

- › Wood and joinery coatings
- › Flexographic and gravure inks
- › Overprint varnishes
- › Metal coatings (can and coil coatings)
- › Powder coatings

The use of Deuteron Wax TF especially improves performance in:

- › COF (coefficient of friction) reduction
- › Mar and abrasion resistance
- › Anti-blocking performance
- › Metal marking resistance

## ■ Dosage

0.5 - 2.0 % (calculated on the complete formulation) depending on binder, application and required properties.



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## ■ Processing

Deuteron Wax TF is easy to disperse and can be incorporated using a common high-speed stirrer. In low viscous systems it might be necessary to use a high shear dispersing unit to properly disperse the material. It is possible to prepare a pre-mix of Deuteron Wax TF in a solvent phase at concentrations around 30 – 45 % (depending on the used solvents).

A pre-mix in water should contain a suitable cosolvent and about 1 % of an emulsifier. Suitable emulsifiers are ethoxylated grades (e.g. based on polysorbate or fat alcohols) with an HLB value of 15.

For water-based coatings please check also our highly concentrated and easy to use Deuteron WD TF.

## ■ Storage Conditions

24 months at room temperature and dry conditions. Storage temperature should not exceed 35 °C.

## ■ Package Sizes

Paper bag (20 kg net)

## ■ Safety

According to Regulation (EC) No. 1272/2008 Deuteron Wax TF is not classified as a dangerous product and therefore does not need to be labelled.

For detailed information please refer to the Safety Data Sheet and Regulatory Information Sheet. The documents are also available on our website:

<https://www.deuteron.com/en/download-center/>

## ■ Deuteron: First class products for the coating industry

Deuteron GmbH successfully develops and sells innovative additives since 1977. Our product range consists of matting agents, anti-static additives, texturing additives, thickeners and UV initiators. In the course of our company history we have become an important partner of the national and international paint, lacquer and coating industry with sales partners around the globe.

This leaflet intends to give technical advice without warranty and does not claim to be complete.



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