

CERAFLOUR 1053

PTFE-free blend of micronized Fischer-Tropsch wax and carnauba wax for reduced COF values and excellent abrasion and scratch resistance in aqueous, solvent-free, solvent-borne and UV coating systems.

Product data

Composition

Blend of micronized Fischer-Tropsch wax and carnauba wax

Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (20 °C):	0.95 g/cm ³
Melting point:	115 °C
Particle size distribution D50:	6 µm
Particle size distribution D90:	10 µm
Bio-based organic carbon content (ASTM D6866):	49 %
Delivery form:	micropowder

Storage and transportation

Product shelf life in unopened original packaging: 24 months

Temperature sensitive. To be stored and transported at a temperature below 50 °C.

Applications

Coatings industry

Special features and benefits

The mechanical properties of CERAFLOUR 1053 are comparable to those of a typical PE/PTFE wax. The additive improves the scratch and abrasion resistance and decreases the COF values of aqueous, solvent-borne, solvent-free, and UV coating systems. As a result of the extra-fine particle size distribution, the additive can also be used in clearcoats and in coating systems with low film thickness. It has only a very minor effect on gloss and haze. In aqueous systems, the organic co-solvent content should be at least 5–10 % in order to prevent the wax additive from floating. CERAFLOUR 1053 has outstanding abrasion resistance in a broad spectrum of application areas compared to a PE/PTFE wax.

Recommended use

Can coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input checked="" type="checkbox"/>
General industrial coatings	<input type="checkbox"/>
Architectural coatings	<input type="checkbox"/>

especially recommended recommended

Recommended levels

0.2-5 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive is preferably incorporated into the coating at a medium shear rate at the end of the production process. The temperature should remain below 40 °C to prevent swelling of the wax particles. Alternatively, CERAFLOUR 1053 can be pre-dispersed in these organic solvents or in a mixture of these solvents and binders that are components of the respective coating formulation. This facilitates the incorporation. A typical dosage for pre-dispersion is between 15 % and 25 % CERAFLOUR 1053. Pre-dispersion in water is not possible. The storage stability in the coating system should be tested.

Printing inks**Special features and benefits**

The additive increases surface slip and improves abrasion resistance in aqueous and solvent-borne printing inks and overprint varnishes.

Recommended levels

1-3 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive should preferably be incorporated into printing inks at the end of the production process at medium shear rate.



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