

Teflon™ Water-Based Topcoat

Industrial Coatings

953G-401

Fact Sheet

953G-401 topcoat is an aqueous dispersion of Teflon" FEP (fluorinated ethylene propylene) copolymer, uniquely formulated to optimize performance. As part of a multicoat system, its exceptional properties provide excellent abrasion resistance and extend service life.

Property Data

Properties ^a	953G-401
Color	Pewter
Coverage, m²/kg (ft²/gal)b	8.67 (11.88) (484)
Viscosity, cPc	300-450
Volume Solids, %	29.0-30.2
Weight Solids, %d	46.7-48.7
Density, kg/L (lb/gal)	1.37 (11.42)
Maximum In-Use Temperature, °C (°F)	204 (400)
Flash Point, SETA Closed Cup, °C (°F)	None

Physical constants are averages only and not to be used as product specifications. They may vary up to ±5% of the values shown.

Application Method

Gently mix 15 min or more until contents are homogeneous. Set the mixer speed so that a vortex appears while avoiding air entrapment. We recommend the use of an axial flow impeller. Insufficient mixing can result in application defects.
100 mesh (approx. 150 μm) stainless steel or nylon
Reduced pressure (RP), conventional, or HVLP gun. Nozzle: $0.8-1.5$ mm. Atomizing air pressure: $2-3$ bar ($30-45$ psi). The settings highly depend on the gun type and coating viscosity.
16–20 µm (0.64–0.80 mil)
953G-506
Force dry primer for 3 min at 65 °C (150 °F) or above.
5-10 min at 340-365 °C (644-689 °F)
Water
Deionized water

*Dry Film Thickness (DFT) measured with Dual probe ED10 or FD10 used in combination with the Dualscope MP20, MP40, FMP20, or FMP40 All recommendations are based upon best knowledge.



bTheoretical coverage at dry film thickness (DFT) of 25 µm (1.0 mil) based on 100% application efficiency. It does not take normal production losses into account. Brookfield RVT (Measured with spindle 2 at 20 rpm/25 °C [77 °F])

[&]quot;Weight Solids (Measured 30 min x 105 °C [221 °F] + 15 min x 380 °C [716 °F])

Handling and Storage

- Gently mix (15 min at 30 rpm) before use.
- Shelf life is 12 months at optimal storage conditions: 18-27 °C (65-80 °F). Maximum storage temperature: 40 °C (105 °F).
- Transport conditions: 5-40 °C (40-105 °F). For safe storage conditions, please refer to Safety Data Sheet (SDS).
- Water-based product; protect from freezing.

For medical application and development, consult Chemours.

Food Contact

This product, when used in combination with another layer compliant with food legislations, is designed to be used in direct contact with food. Applied according to the application method and instructions in this Fact Sheet, the fully cured system will comply with U.S. FDA food contact regulations.

In the European Union, this product complies with:

- Regulation (EC) n°1935/2004 on materials and articles intended to come into contact with food and is safe to be used and/or sold in accordance with Article 3 of this Regulation; and
- Specific national legislations/recommendations applicable to this category of coatings (nonstick, high temperature- resistant) listed in the detailed compliance documentation for food contact applications.

In case this product is not compliant with the specific legal requirements in one EU Member State, this product, in accordance with Article 34-36 of the Treaty on the Functioning of the European Union (TFEU), can still be used and/or sold for food contact applications in all EU Member States, on the basis of its full compliance in at least one Member State of the European Union

The above is only valid on condition that the product is applied: according to the information outlined in the application method section of this Fact Sheet, on substrates that are suitable for use in food contact applications, in combination with the above recommended Chemours primers, and presuming appropriate processing by the coater/applicator following the Good Manufacturing Practices Regulation (EC) n°2023/2006/EC.

Any changes or variations from the application method indicated in this Fact Sheet for food contact applications shall be assessed prior to its use.

For detailed regulatory compliance information and/or any potential regulatory restrictions on the use of this (primer, midcoat, topcoat) product within one of the corresponding Industrial Finishes coating systems from Chemours, we refer you to the U.S. FDA and/or EU compliance documentation from Chemours for the specific coating system utilizing this product, as well as the technical advice included in this product Fact Sheet. For details and information, please contact your Chemours representative.

Disposal and Other Considerations

Please follow the guidelines as outlined by the Plastics Industry Association (www.plasticsindustry.org) or PlasticsEurope (www.plasticseurope.org). For detailed information on health and safety, refer to the SDS.

For disposal, please follow these guidelines:

- All treatment, storage, transportation, and disposal of this product and/or container must be in accordance with applicable national and local regulations.
- Do not discharge aqueous dispersions to lakes, streams, or waterways.
- Separate solids from liquid by precipitation and decanting or filtering. Dispose of dry solids in a landfill that is permitted, licensed, or registered to manage industrial solid waste.
 Discharge liquid filtrate to a wastewater treatment system.
- Incinerate only if incinerator operates at 800 °C (1475 °F) or higher and is capable of scrubbing out hydrogen fluoride and other acidic combustion products.
- Industrial fluoropolymer waste containing additives, such as solvents, primers, or thinners, must be regarded as special waste. Companies should contact their local waste disposal authorities for details of relevant waste disposal regulations.
- Empty containers should preferably be cleaned and recycled.
 If this is not possible, the containers should be punctured or otherwise destroyed before disposal.

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