

DuPont™ 852G-201 and 852G-202 PTFE Clear Topcoats

Industrial Nonstick Coatings

Product Information

DuPont™ 852G-201 and 852G-202 clear topcoats are formulated to provide the advantages of PTFE: excellent release with low coefficient of friction and high temperature resistance.

Property Data

| Product Code | 852G-201 | 852G-202 |
|--|-------------|-------------|
| Properties¹ | | |
| Color | Clear | Clear |
| Coverage, ² ft ² /gal (m ² /kg) | 484 (8.85) | 461 (8.82) |
| Weight Solids, % | 46.5 – 51.5 | 45.2 – 48.2 |
| Volume Solids, % | 30.5 – 33.8 | 27.8 – 29.6 |
| Density, lb/gal (kg/L) | 11.6 (1.39) | 11.2 (1.33) |
| Viscosity ³ , cP | 400 – 900 | 300 – 600 |
| Maximum In-Use Temperature, °F (°C) | 500 (260) | 500 (260) |
| Shipping Class | +100L | +100L |
| Food Contact ⁴ | YES | NO |

¹ Physical constants are averages only and are not to be used as product specifications. They may vary up to 5% of the values shown

² Theoretical coverage at dry film thickness (DFT) of 1.0 mils (25µ) based on 100% application efficiency. It does not take normal production losses into account

³ Brookfield RVT (measured with spindle 2 at 20 RPM/25 °C)

⁴ See Food Contact section



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Application Method

| | |
|-------------------------------|--|
| Substrate | Carbon steel, stainless steel, aluminum, except high copper containing alloys. |
| Surface Preparation - Primer | Apply appropriate primer over clean, grit-blasted surface, per instruction for the primer. See primer fact sheets for application parameters. |
| Surface Preparation - Topcoat | A color-uniforming coat of Teflon® 851G-line PTFE topcoat may be applied and forced dry at 15 min. at 600 °F (315 °C) before applying the PTFE clear topcoat. |
| Coating Preparation | Bring coating to room temperature. Roll or agitate gently but thoroughly until contents are homogeneous. Do not use a “lightening mixer” or similar type of mixer. |
| Filtering | Strain through 100 mesh (approx. 150 µ) stainless steel screen. |
| Recommended DFT | For final DFT of 25.6 µm (1.0 mil) or less, use a single coat of Teflon® PTFE 852G-201. For DFT of 25.4–76 µm (1.0–3.0 mil) DFT, use Teflon® PTFE 852G-202 in multiple coats of 20–25 µm (0.8–1.0 mil) each, follow cure procedures below for multiple coats. |
| Curing (Metal temperature) | Force dry before the bake to help prevent popping and/or cracking. After the wet film is air or force dried, it is milky white in color but will become a transparent film after cure. For a Single Coat: <ul style="list-style-type: none">• Force dry at 150–200 °F (66–93 °C).• Bake 30 min. at 725 °F (385 °C). For Multiple Coats: <ul style="list-style-type: none">• Initial: Force dry at 150–200 °F (66–93 °C), Bake 5–10 min. at 600 °F (316 °C).• Final: Force dry at 150–200 °F (66–93 °C), Bake 15 min. at 750 °F (400 °C). |
| Clean up | Water |
| Thinner/Additive | Water |



Handling and Storage

- Shelf life is approximately 12 months at room temperature (65–75°F [18°–24°C]).
- Waterbased product, protect from freezing.
- Material may be exposed briefly to temperatures outside the suggested temperature range without harm. In such cases, check product properties before extensive use.

For detailed information on health and safety, refer to the Material Safety Data Sheet and the latest edition of “The Guide to the Safe Handling of Fluoropolymer Resins,” published by The Society of the Plastics Industry, Inc. (www.fluoropolymers.org) or by PlasticsEurope (www.plasticseurope.org).

852G-201 coating system is designed to be used in direct contact with food. Applied according to the application method and instructions, the fully cured coating will comply with US FDA food contact regulations and can be sold and/or used for food contact applications for non stick coatings in Europe following the national legislations of each European country, having specific regulations for this category of coatings (non-stick, high temperature resistant).

Any changes or variations of individual coating thickness from what is indicated in this fact sheet should be assessed for food contact applications prior to its use. For details and information please contact your DuPont representative. Primers must also comply for the system to be FDA conforming.

852G-202 coating does not comply with FDA regulations governing components of coatings for direct food contact.

Please follow these disposal guidelines as outlined in “The Guide to the Safe Handling of Fluoropolymer Resins,” (available at www.fluoropolymers.org for download):

- 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 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 the 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.

For more information on
DuPont Industrial Nonstick Coatings, please visit
www.teflon.com/industrialglobalsupport

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CAUTION: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also visit www.teflon.com/industrial to download a copy of the DuPont POLICY Regarding Medical Applications H-50103 and DuPont CAUTION Regarding Medical Applications H-50102.



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