



# Teflon™ ETFE Powder Topcoats

## Industrial Coatings

# 532-6200, 532-6210

## Fact Sheet

Ethylene tetrafluoroethylene (ETFE) is a thermoplastic copolymer. These materials are extremely tough, abrasion-resistant, and have excellent chemical resistance. ETFE is also an excellent electrical insulator and has good nonstick and low friction properties. 532-62xx product line is designed for ultra-smooth topcoats.

### Property Data

Properties <sup>a</sup>	532-6200	532-6210
Type	Midcoat	Topcoat
Color	White	Clear
Coverage, m <sup>2</sup> /kg (ft <sup>2</sup> /gal) <sup>b</sup>	22.0 (110)	22.0 (110)
Particle Size, Average, μm <sup>c</sup>	20-40	20-40
Bulk Density, g/100 cc	55-85	55-85
Density, kg/L (lb/gal)	1.77 (14.75)	1.73 (14.44)
Maximum In-Use Temperature, °C (°F)	150 (300)	150 (300)

<sup>a</sup>Physical constants are averages only and not to be used as product specifications. They may vary up to +5% of the values shown.

<sup>b</sup>Theoretical 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.

<sup>c</sup>Particle size refers to the average particle size measured by laser diffraction.

### Application Method

Coating Preparation	Homogenize powder before opening bag.
Filtering	30 mesh (approx. 550 μm) stainless steel or nylon. Insufficient screening can result in application defects.
Application	Use fluidized bed with or without vibration system (depends on powder quantity and particle size of the powder). On flat and/or conductive parts, high voltage and higher amperage can be used. On insulated and complex parts, amperage should be lowered. In some situations, a fixed voltage may be more effective than using an automatic current control setting. The gun settings depend on the gun type and complexity of the part. Recommended general settings: ■ Product supply: 30-50% ■ Air carrier: 3.0 nm <sup>3</sup> /hr ■ Fluidization bed: 0.3 nm <sup>3</sup> /hr ■ Electrode fluidization: Flat jet 0.2 nm <sup>3</sup> /hr ■ Amperage: 10 μA ■ Voltage: 60 kV
Recommended DFT*	Up to 100 μm (3.9 mil) per coat, total DFT of 250 μm (9.8 mil) max.
Recommended Primer	Liquid 699N-129, Powder 532G-6405
Drying (Metal Temp.)	Powders can be applied dry on wet. Full coating system should be dried before final cure.
Curing (Metal Temp.)	20-30 min at 270-290 °C (520-555 °F). Prolonged exposure at or above the maximum bake temperature can cause brown discoloration, polymer sagging, and blistering.
Multiple Coats	It may be necessary to decrease the application voltage after the first coat to avoid the formation of pits on the coating surface. These pits are caused by excessive charge and build. Apply clear topcoat (powder or liquid) as final layer; finishing with 532-6210 gives a very smooth glossy appearance to the system.

\*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.

## Handling and Storage

- Powders should be stored in closed plastic bags.
- Powders may form lumps under prolonged storage; sieving through a coarse screen will restore the powder.
- Powders should be usable for an indefinite period of time without caking or deteriorating if stored 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).

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 on this Fact Sheet, the fully cured system will comply with U.S. FDA food contact regulations at temperatures up to 121 °C (250 °F). Please note that topcoats, intermediate coats, and primers must all comply for the system to be FDA conforming.

ETFE-based coatings are not compliant with European food legislations.

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/appliator 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 (PIA) or Association of Plastics Manufacturers Europe (PlasticsEurope). 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.

## HOW TO USE THE TEFLON™ BRAND NAME WITH YOUR PRODUCT

Teflon™ is a registered trademark of Chemours for its brand of fluoropolymer resins, coatings, films, and dispersions. The Teflon™ brand name is licensed by Chemours in association with approved applications. Without a trademark license, customers may not identify their product with the Teflon™ brand name, as Chemours does not sell such offerings with the Teflon™ trademark. Unlicensed customers may refer to the Chemours product offering with only the Chemours name and product code number descriptor as Chemours sells its product offerings. There are no fair use rights or exhaustion of rights to use the Teflon™ trademark from buying from Chemours, a Chemours customer, or a distributor without a trademark license from Chemours.

If you are interested in applying for a trademark licensing agreement for the Teflon™ brand, please visit [www.teflon.com/license](http://www.teflon.com/license)

**CAUTION:** Do not use or resell Chemours materials in medical applications involving implantation in the human body or contact with internal bodily fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information, please contact your Chemours representative. For medical emergencies, spills, or other critical situations, call (866) 595-1473 within the United States. For those outside of the United States, call (302) 773-2000.

The information set forth herein is furnished free of charge and based on technical data that Chemours believes to be reliable. It is intended for use by persons having technical skill, at their own discretion and risk. The handling precaution information contained herein is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Because conditions of product use are outside our control, Chemours makes no warranties, express or implied, and assumes no liability in connection with any use of this information. As with any material, evaluation of any compound under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

NO PART OF THIS MATERIAL MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF CHEMOURS.

For more information, visit [teflon.com/industrial](http://teflon.com/industrial)

For sales and technical support contacts, visit [teflon.com/industrialglobalsupport](http://teflon.com/industrialglobalsupport)

The Chemours Company  
1007 Market Street  
P.O. Box 2047  
Wilmington, DE 19899  
T: +1 302 773 1000

Asia Pacific  
The Chemours Chemical  
(Shanghai) Co., Ltd.  
Shanghai, China  
T: +86 21 3862 2888

Europe  
Chemours Belgium BVBA  
Kallo, Belgium  
T: +32 3 730 2211

Latin America  
Chemours do Brasil, S.A.  
Sao Paulo, Brasil  
T: +55 11 2599 8574

© 2018 The Chemours Company FC, LLC. Teflon™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. Chemours™ and the Chemours Logo are trademarks of The Chemours Company.

C-11693 (9/18)