



Teflon™ One Coats For Off-Shore Oil & Gas Applications

Industrial Coatings

857G-508, 857G-519, 857G-574, 857G-575

Fact Sheet

857G-508, 857G-519, 857G-574, and 857G-575 are low VOC, water-based, one coat industrial coatings designed for use in corrosive environments. They are specifically designed for coating of off-shore structures and for use on substrates such as carbon steel, stainless steel, and aluminium.

Property Data ¹

Product Code	857G-508	857G-519	857G-574	857G-575
Color	Red	Black	Green	Yellow
Coverage, ² m ² /kg (m ² /L) (ft ² /gal)	8.14 (9.36) (381)	8.59 (10.22) 417	8.93 (10.63) (433)	8.12 (9.66) (394)
Viscosity, ³ centipoises	500 – 700	500 – 700	500 – 800	400 – 800
Volume Solids, %	22.1 – 26.1	23.6 – 27.6	24.1 – 28.1	22.0 – 26.0
Weight Solids, ⁴ %	31.4 – 35.4	31.4 – 35.4	31.0 – 35.0	31.3 – 35.3
Density, kg/l (lbs/gal)	1.19 (9.92)	1.19 (9.92)	1.17 (9.75)	1.18 (9.83)
VOC content, U.S. lb/gal (g/L) (less exempt)	2.25 (270)	2.40 (287)	2.34 (280)	2.45 (292)
Maximum In-Use Temperature, °C (°F)	204 (400)	204 (400)	204 (400)	204 (400)
Flash Point, SETA closed cup, °C (°F)	None	None	None	None

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

²Theoretical 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

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

⁴Weight Solids (Measured 30'x105°C+15'x380°C)

Application Method

Substrate	Carbon steel, stainless steel, aluminium, except higher copper-containing alloys.
Surface Preparation	<p>For aluminium, stainless steel, and carbon steel:</p> <ol style="list-style-type: none"> Clean (vapor degrease, prebake, or other) Lightly grit-blast with aluminium oxide (e.g. 3-4.6 µm). Other pretreatments for corrosion resistance can be carried out as well prior to application of the coating to the part. Application of conversion coatings is suggested where grit blasting is not practical and/or where additional corrosion protection is specified. <p>The coating should be applied immediately after blasting on carbon steel to avoid flash rusting. If a conversion coating is applied, 857G-5XX should then be applied before the reported shelf life of the applied conversion coating is realized.</p>
Application	<ol style="list-style-type: none"> Bring the material to room temperature, 21-26°C (70-79°F) is optimal Thoroughly mix by rolling, and filter the material through a 100-mesh stainless steel screen (0.146 mm openings). Use conventional industrial spray equipment. Apply at a minimum DFT of 20-30 µm (0.8-1.2 mil). Higher film thicknesses are possible.
Recommended DFT*	<p>Film thickness : 15-30 µm (0.6-1.2 mil) DFT per coat.</p> <p>These products are re-coatable. Maximum DFT in multiple coats : 64 µm (2.5 mil)</p>
Drying/Baking	<p>Typical drying and baking: The required bake window for this product is 15-20 min at a metal temperature of 232-260 °C (450-500 °F). The optimum temperature and time will depend on the size and mass of the part. An uncoated part should be measured by thermocouple to ensure that the substrate stays within the proper bake window during the processing of the part.</p>
Clean up	Water

* Dry Film Thickness (DFT) measured with Dual probe ED10 or FD10 used in combination with the Dualscope MP20 or MP40 E-S

All recommendations are based upon best knowledge

Handling and Storage

- Gently mix (15 min at 30RPM) before use
- Shelf life is 12 months at optimal storage conditions: 18°C-27°C (65°F-80°F). Maximum storage temperature 40°C (105°F).
- Transport conditions: 5°C-40°C (40°F-105°F). For safe storage conditions, pls. refer to safety data sheet.
- Water-based product, protect from freezing

For medical application and development, consult Chemours.

Food Contact

These coatings are not intended for use in direct contact with food.

Disposal and Other Considerations

Please follow the guidelines as outlined by [SPI](#) (The Society of the Plastics Industry) or [PlasticsEurope](#) (Association of Plastics Manufacturers Europe). For detailed information on health and safety, refer to the Safety Data Sheet.

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 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 Chemours Nonstick coatings: www.chemours.com or www.teflon.com

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

Teflon™ is a trademark of the Chemours Company FC, LLC, only available for use under license.

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.

All technical advice, recommendations and services are rendered by Seller free of charge. They are based on technical data which the Seller believes to be reliable, and are intended for use by persons having skill and know-how, at their own discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use by Buyer in whole or in part. Such recommendations and technical advice or services are not to be taken as a license to operate under or intended to suggest infringement of any existing patent. All coverage figures are based on 100% application efficiency. These calculations do not take into account normal losses due to production conditions.

CAUTION: Do not use Chemours 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 Chemours under a written contract that is consistent with Chemours policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your Chemours representative. You may also request a copy of the Chemours POLICY Regarding Medical Applications