



# PG SEALING TECHNOLOGIES

Experts In Bolted Flange Connections



PRODUCT

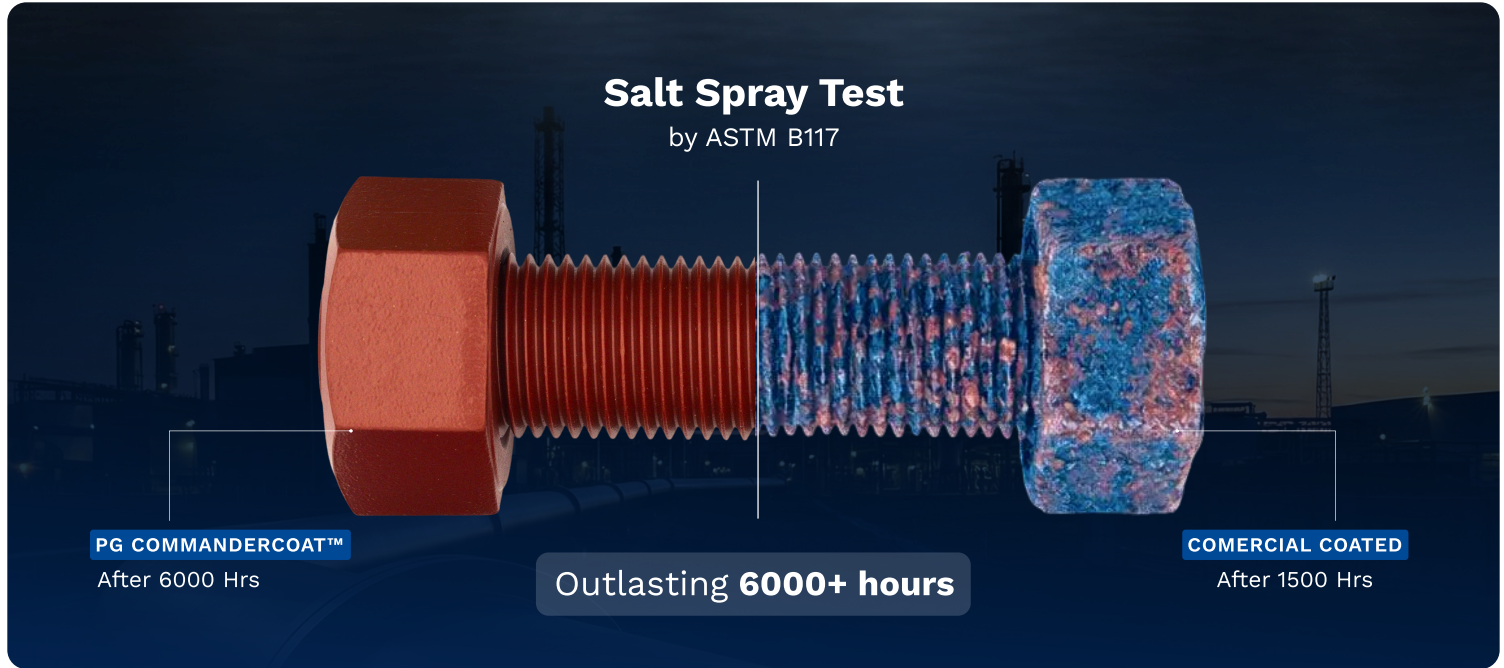
## PG CommanderCoat™

High-Performance Fluoropolymer  
Fastener Coating System

ANTI-SEIZE | ANTI-CORROSION | ALL-WEATHER

 [pgsealing.com](http://pgsealing.com)

# PG CommanderCoat™



## PRODUCT

# PG CommanderCoat™

PG CommanderCoat™ is an advanced fastener coating technology developed by PG Sealing Technologies in collaboration with a leading material research organization. Designed specifically for severe corrosive environments, it significantly enhances the service life of fasteners and hardware.

This system ensures reliable installation, controlled friction, and long-term protection for bolting assemblies in offshore, subsea, marine, and aggressive industrial atmospheres.

### THE DUAL-LAYER TECHNOLOGY

The PG CommanderCoat™ system utilizes a synergistic two-coat structure to deliver superior performance:

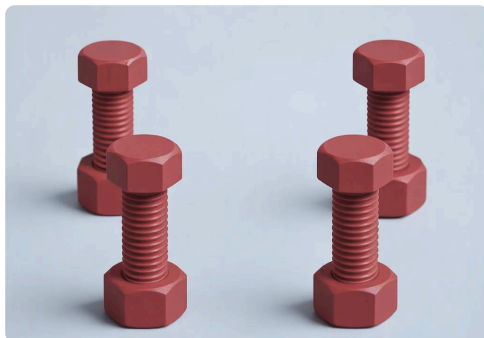
#### Basecoat (Corrosion Barrier)

An aluminum ceramic-filled cermet coating that utilizes an inorganic binder with aluminum/metal oxide pigments, cured at 340°C to provide the primary corrosion barrier.

#### Topcoat (Functional Layer)

A proprietary non-stick fluoropolymer resin system designed for chemical resistance, low friction, and anti-seize performance.

### Performance Highlights



#### Extreme Durability:

Successfully Passed 6000+ Hours Of ASTM B117 Salt Spray Testing.

#### Temperature Resilience:

Operates Effectively From -196°C To +204°C.

#### Chemical Resistance:

Outstanding Resistance To Seawater, Chemicals, Solvents, And UV Exposure.

#### Installation Efficiency:

Controlled Coefficient Of Friction Ensures Consistent Bolt Tensioning, While Excellent Anti-Seize Properties Allow For Easy Installation And Removal.

# PG CommanderCoat™

## ENGINEERED TO COMMAND CORROSION

Property	Specification	Method/Standard
Total Dry Film Thickness	35-55 Microns	--
Basecoat Thickness	20-30 Microns	--
Thick Top Coatness	15-25 Microns	--
Salt Spray Resistance	6000+ Hours	ASTM B117
Coefficient Of Friction	0.07-0.11	--
Adhesion	Class 4-5	ASTM D3359
Pencil Hardness	2H-4H	--
Impact Strength	150 In.Lb	ASTM D2794
Available Colors	Blue, Green, Black, Red	--

## CHEMICAL & ENVIRONMENTAL RESISTANCE

### PG CommanderCoat™ Provides Robust Protection Against Various Media

- **Seawater:** No effect.
- **Petroleum Products:** Excellent.
- **Bolt Load:** The required bolt load is much lower than for RJ or Spiral Wound gaskets, making flanges less likely to be damaged.
- **Solvents (Aliphatic/Aromatic):** Excellent.
- **Animal/Vegetable Oils:** Excellent.
- **Diluted Alkalis/Detergents:** Good.

### Applications

This coating system is ideal for critical infrastructure and equipment, including:

- Offshore and subsea flanges.
- Oil & gas installations..
- The required bolt load is much lower than for RJ or Spiral Wound gaskets, making flanges less likely to be damaged.
- Marine atmosphere environments.
- Chemical plants and severe industrial corrosion zones.
- Stud bolts, nuts, and washers.

## QUALITY ASSURANCE & STANDARDS

### Surface Preparation

Fasteners undergo degreasing, bake-out (350-380°C), and abrasive blasting to ISO 8501/SSPC Sa2.5 to create a clean, scale-free surface with an anchor profile of 0.2-0.6 mil.

### Rigorous Testing:

Inspection follows ASTM F1470 protocols, including visual checks, thickness measurement (ASTM D7091), solvent rub tests (ASTM D5402), and hardness testing (min 3H).

### Surface Preparation:

- Meets ASTM F1428 fastener coating requirements.
- Complies with ISO 20340 and various ASTM standards (B117, D3359, A193/A194, etc.).
- Supplied with EN 10204/ISO 10474 Type 3.1 certification.
- Complete inspection records are maintained for 3 years.

#### USA

+1 832 644 5422  
rfq@pgsealing.com  
909 Shaver ST.Pasadena,  
Texas TX77396 USA

#### DUBAI

+971 4 824 0611  
rfq@pgsealing.com  
PO, Box 32209, Unit 2, Plot  
5970295, DIP 2, Dubai, UAE

#### ABU DHABI

+971 2 551 7770  
rfq@pgsealing.com  
Sector M44, Property PRP 73213,  
Muaffah Abu Dhabi, UAE

APPROVED BY

