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Since 1975



BLINEX FILTER – COAT PVT. LTD.

SINTERED POROUS PLASTIC FILTERS | P.T.F.E. COATINGS

Industry-Leading Applicator of P.T.F.E / Fluoropolymer
— Anti-Corrosive and Non-Stick Coating Solutions —



Fluoropolymer Surface Protection

Solutions for **Industrial Applications**

Corrosion
Resistance



Non-Stick Surface



Up to **260°C**



Chemical
Inertness



Chemical
Processing



Pharmaceutical
Industry



Food & Beverage



Oil & Gas



Heavy Engineering

KIRTAN R DHAMI

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50 YEARS OF ENGINEERING EXCELLENCE

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BLINEX FILTER – COAT PVT. LTD.

WHY BLINEX FILTER-COAT PVT. LTD.?



DECADES OF INNOVATION & EXPERTISE

- Established in 1975 with 50+ years of specialized coating experience
- Pioneers in sintered porous plastic filters and advanced fluoropolymer coatings
- Serving clients globally in the chemical, pharmaceutical, oil & gas, automotive, and food processing industries.



CUTTING-EDGE FLUOROPOLYMER COATING SOLUTIONS

- Customized TEFCOT™ P.T.FE., FEP, PFA, ETFE, and Rilsan® coating systems
- Engineered for non-stick, anti-corrosion, chemical-resistant and high-temperature stability applications
- Dedicated R&D to continuously enhance coating formulations and performance



UNCOMPROMISING QUALITY CONTROL

- Precision surface preparation ensuring optimal adhesion
- Controlled multi-layer coating process using state-of-the-art equipment
- Rigorous testing and inspections to meet the highest industry standards




COMMITTED TO CLIENT SATISFACTION


- Tailored solutions to meet specific operational challenges
- Proven track record of reliable, high-performance coatings
- Strong long term partnerships built on trust and technical excellence

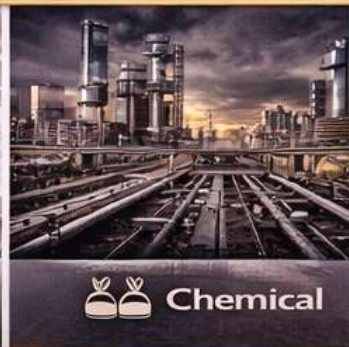
YOUR TRUSTED PARTNER FOR CORROSION RESISTANT & NON-STICK COATING SOLUTIONS



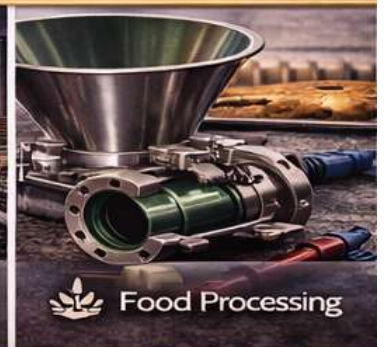
 Oil & Gas



 Pharmaceutical



 Chemical



 Food Processing

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P.T.F.E. COATING SYSTEMS – TEFCOT™

What is P.T.F.E. (Polytetrafluoroethylene) Coating?

P.T.F.E. coatings are high-performance fluoropolymer surface systems engineered to provide:

- Exceptional chemical inertness
- Extremely low coefficient of friction
- High temperature stability up to +260°C
- Non-stick and anti-corrosion protection

When applied using controlled spray or electrostatic processes, the coating forms a uniform, strongly bonded protective barrier designed for long-term durability in aggressive industrial environments.

Technical Specifications

- Typical Coating Thickness: 20 Microns
- Continuous Service Temperature
- Surface Finish Options
- Chemical Resistance: Near universal
- Friction Coefficient. Available (subject to grade)

Coating Process Types

- Spray Applied Systems
- Electrostatic Powder Coating
- Multi-Coat Primer + Topcoat Systems



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P.T.F.E. / Fluoropolymer Coatings – TEFCOT™ FAQs

by BLINEX FILTER-COAT PVT. LTD.

1 What are P.T.F.E. / Fluoropolymer coatings?

P.T.F.E. and Fluoropolymer coatings are advanced protective coatings made from fluorinated polymers that provide a chemically inert, non-stick, and low-friction surface. TEFCOT™ coatings are designed to protect industrial components from corrosion, chemical attack, wear, and sticking.

2 What are the key benefits of TEFCOT™ P.T.F.E. coatings?

TEFCOT™ P.T.F.E. coatings offer excellent chemical resistance, high temperature stability, low coefficient of friction, non-stick properties, and long service life.

3 Which Fluoropolymer coating systems are available under TEFCOT™?

BLINEX offers customized TEFCOT™ coating solutions including P.T.F.E., FEP., PFA, ETFE, and other Fluoropolymer systems based on application, temperature, chemical exposure, and wear conditions.

4 What components can be coated with TEFCOT™?

Valves, vessels, agitators, fasteners, shafts, rollers, trays, filters, and custom-engineered parts in carbon steel, stainless steel & more.

5 What is the typical coating thickness?

Typically 25 microns to 1000+ microns, depending on corrosion, wear or non-stick performance needs.

6 What temperature range can TEFCOT™ coatings withstand?

Generally -50°C to 260°C, with higher intermittent tolerance based on formulation.

7 Are TEFCOT™ coatings suitable for chemical and corrosive environments?

Yes. Highly resistant to acids, alkalis, solvents & aggressive chemicals — ideal for chemical processing, pharma & specialty industries.

8 Are TEFCOT™ coatings suitable for food and pharmaceutical applications?

Yes. Food-grade & pharma-compliant coatings available for clean-process environments (subject to grade selection).

9 Why choose BLINEX FILTER-COAT PVT. LTD. for TEFCOT™ coatings?

Decades of expertise, precision application, controlled surface prep & strict quality checks for high-performance, custom coatings.

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INDUSTRY APPLICATIONS

P.T.F.E / FLUOROPOLYMER COATINGS – TEFCOT™

Delivering non-stick, anti-corrosion, chemical-resistant and high-temperature coating solutions across critical industrial sectors.



Oil & Gas

- Offshore platforms
- Fasteners & valves
- Splash zone protection
- Anti-galling torque control



Chemical Processing

- Reactors & vessels
- Acid-resistant linings
- Agitators & flanges
- Corrosion protection



Food & Bakery

- Bakery trays
- Biscuit moulds
- Non-stick release surfaces
- FDA-compliant coatings



Marine & Offshore

- Salt-water corrosion resistance
- Marine fasteners
- Structural components



Automotive

- Wear resistant components
- Fuel & chemical resistance
- Impact-resistant coated parts



Packaging & Converting

- Film rollers
- Adhesive resistant surfaces
- Build-up resistant machinery

NON-STICK • ANTI-CORROSION • LOW FRICTION • CHEMICALLY INERT • HIGH TEMPERATURE STABLE



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P.T.F.E / Fluoropolymer Non-Stick & Anti-Corrosion Coatings – TEFCOT™

1. P.T.F.E. Nonstick Coatings
2. P.T.F.E. FDA Approved Bakery Coatings on Rollers / Cups
3. P.T.F.E. Coating on Mould / Dies
4. P.T.F.E. / Fluoropolymer Coated Fasteners – Studs , Nuts , Bolts & Washers
5. P.T.F.E. Coated Vessels and Valve Body
6. P.T.F.E. Coatings on Industrial Components
7. P.T.F.E. Coated Flanges
8. P.T.F.E / Fluoropolymer Coated Nuts
9. P.T.F.E / Fluoropolymer Coated Washers
10. P.T.F.E. Coated Springs
11. Fluoropolymer / Fluorocarbon Coated Small Screws and Components



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P.T.F.E / Fluoropolymer Non-Stick & Anti-Corrosion Coatings – TEFCOT™

12. P.T.F.E NON STICK COATING ON TEXTILE ROLLERS
13. P.T.F.E NON STICK COATING FOR PRINTING INDUSTRIES
14. P.T.F.E. Coatings for Pharma Applications
15. P.T.F.E. Coatings for Automobile Applications
16. P.T.F.E. Coatings on SS Flexible Bellows and Hose Pipe
17. P.T.F.E / Fluorocarbon coatings for Marine Environments
18. COATED Medical Bipolar Scissors & Forceps
19. Polyamide / Rilsan® / Nylon Coatings
20. ECTFE / Halar® & PVDF Coatings

Fluoropolymer Sheet Lining / P.T.F.E. Moulded Products

- ✓ P.T.F.E. Lined Valves & Components
- ✓ P.T.F.E. Lined Steel Pipes & Components
- ✓ P.T.F.E / Fluoropolymer Semi-Finished & Machined Components
- ✓ P.T.F.E. Lined Sparger Nozzles & Dip Pipes



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P.T.F.E Non-Stick Coatings on Moulds / Dies – TEFCOT™

For Plastic Injection Moulded Products

- ✔ High-Performance **Non-Stick & Low-Friction** Surfaces
- ✔ Improves Release Characteristics & Process Repeatability
- ✔ Extends Tool Life & Reduces Wear
- ✔ Resistant to Temperature Range: **-100°C to +260°C**
- ✔ Excellent Chemical & Abrasion Resistance

PTFE Non-Stick Coatings from **-100°C to +260°C** are applied on **Moulds & Dies** used in Plastic Injection Moulding.

- ✔ Prevents **Sticking & Surface Defects**
- ✔ Chemically Inert & Extremely Low Coefficient of Friction
- ✔ Enhances Surface Integrity & Dimensional Accuracy



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P.T.F.E Non-Stick Coating on Textile Rollers – TEFCOT™

For Textile Finishing, Film Making & Coating Lines

NON-STICK • LOW FRICTION • BUILD-UP RESISTANT

- ✓ Excellent **Non-Stick Properties**
- ✓ **Smooth & Low-Friction Surface**
- ✓ Reduces **Build-Up & Fouling**
- ✓ Extends **Roller Service Life**



PTFE non-stick coatings are widely used on textile rollers and **cylinders** to prevent adhesion of gum, resins, adhesives, films and coating materials during processing.

Material build-up on rollers can cause **surface defects, uneven coating** and **frequent downtime**. TEFCOT™ PTFE coatings provide a **smooth, low-friction surface** that ensures **clean release, uniform transfer** and consistent line operation.

PTFE-coated rollers **improve product quality**, reduce cleaning time and increase overall **production efficiency**.

Why PTFE is Used on Textile Rollers

- Prevents **gum, resin & adhesive sticking**
- Ensures **smooth fabric & film movement**
- Minimises cleaning frequency
- Resistant to **oils, solvents & processing chemicals**
- Suitable for **heated & drying rollers**
- Protects metal surface from **corrosion & wear**



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P.T.F.E Coatings for Non-Stick, Corrosion Protection & Low Friction Applications – TEFCOT™

For Packaging & Gum Processing Industries

NON-STICK • LOW FRICTION • CHEMICALLY INERT

- ✓ Excellent Non-Stick & Release Properties
- ✓ Corrosion & Chemical Resistance
- ✓ High Temperature Stability up to +260°C
- ✓ Low Coefficient of Friction (0.05-0.20)

PTFE coatings provide superior non-stick, low-friction and chemically inert surfaces, making them ideal for demanding packaging and gum manufacturing environments where material build-up and contrators.

With the highest continuous operating temperature among fluoropolymers, PTFE coatings offer outstanding thermal stability, abrasion resistance and resistance to aggressive chemicals and strong solvents.

TECHNICAL SPECIFICATIONS

Typical Coating Thickness: 25-50 Microns

Coefficient of Friction: 0.05-0.20

Operating Temperature Range:
- 100°C to +260°C

Chemical Resistance:
Resistant to most corrosive
chemicals

Performance Characteristics

- 🌀 Non-Stick & Release Properties
- 🌀 Corrosion & Chemical Resistance
- 🌀 Non-Wetting & Easy Cleaning
- 🌀 Heat & Thermal Resistance
- 🌀 Cryogenic Stability
- 🌀 Electrical & Dielectric Properties
- 🌀 Chemical Resistance



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SINTERED POROUS PLASTIC FILTERS | P.T.F.E. COATINGS

P.T.F.E (FDA) Approved Coatings – TEFCOT™ For Bakery Rollers & Cups



FOOD GRADE • HYGIENIC • SELF-LUBRICATING

- ✓ Smooth Dough Release & Consistent Shape
- ✓ Resists Oil, Fats, Moisture & Sugars
- ✓ High Heat Resistance up to **250°C**
- ✓ FDA-Approved for Direct Food Contact

PTFE Non-Stick Coatings are applied on Bakery Rollers and Biscuit Making Machines to ensure **smooth dough release, consistent product shape**, and **hygienic processing**.

The Oleophobic & Hydrophobic properties resist oil, fats, moisture & sugars, **preventing build-up** and enabling fast, easy & **self-cleaning** surfaces. Reduces downtime & improves **hygiene**.

Self-Lubricating PTFE Coating reduces wear, eliminates need for external lubricants, and withstands **high temperatures up to 250°C** continuously.

Chemically inert, **FDA-approved & food safe**, it ensures zero contamination, low friction, energy savings, and extended equipment life.



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P.T.F.E / FDA Approved Coating on Bakery Trays and Biscuit Cups – TEFCOT™

For Bakery and Biscuit Making Industries

NON-STICK • DURABLE • FDA COMPLIANT

- ✓ Superior Non-Stick & Easy Release
- ✓ Low Friction & Abrasion Resistant
- ✓ High Heat Resistance up to +260°C
- ✓ Minimizes Cleaning & Improves Baking Efficiency

TEFCOT™ P.T.F.E coatings provide FDA approved, non-stick and low-friction surfaces for bakery trays and biscuit cups - TEFCOT™.

These coatings enhance performance by ensuring consistent easy release reducing cleaning time, and resisting High temperatures, fats, oils and extreme baking conditions. FDA is 25-50 Microns.

TECHNICAL SPECIFICATIONS

★ FDA Approval: ✓ FDA Compliant

Typical Coating Thickness:
25-50 Microns

Operating Temperature Range:
-100°C to +260°C

Non-Stick Surface:
Excellent easy release
& reduced cleaning

Performance Characteristics

- 🌀 Superior Non-Stick Properties
- 🌀 Low Friction & Wear Resistance
- 🌀 Withstands High Baking Temperatures
- 🌀 Extends Tray & Mould Lifespan
- 🌀 Minimizes Cleaning Time
- 🌀 Improves Easy Release & Baking Quality



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P.T.F.E./ Fluoropolymer Coated Fasteners – Studs, Bolts & Nuts

Oil & Gas Industry

- ✓ Excellent corrosion resistance in marine, chemical, and offshore environments.
- ✓ Low coefficient of friction, enabling controlled tightening and accurate torque values.
- ✓ Dry film lubricity, preventing galling, seizing, and thread damage
- ✓ Chemical and acid resistance, suitable for harsh industrial exposure
- ✓ Extended service life, even in offshore splash zones

The resin-bonded PTFE fluoropolymer coating forms a durable protective layer that enhances fastener performance without compromising strength.



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P.T.F.E Coated Springs – TEFCOT™

For Chemical, Oil & Gas, Marine & Engineering Applications

LOW FRICTION • CORROSION RESISTANT • LONG SERVICE LIFE

- ✓ Superior Corrosion & Chemical Resistance
- ✓ Low-Friction Surface for Smooth Operation
- ✓ Reduces Wear & Extends Spring Life
- ✓ Performs in Harsh & High-Moisture Environments

PTFE coatings on industrial springs are **engineered to enhance performance, reliability, and durability** in demanding operating environments. Springs are frequently exposed to friction, moisture, chemicals, and cyclic loading that can lead to premature wear and **corrosion**.

The **low-friction** and chemically inert PTFE surface minimizes sticking, protects against rust and chemical attack, and ensures consistent mechanical response throughout repeated compression and extension cycles.

TEFCOT™ coated springs **reduce maintenance** requirements while improving operational efficiency in critical industrial applications.

Applications



- Chemical Processing Equipment



Oil & Gas Valves & Actuators



- Marine Hardware & Offshore Systems



Industrial Machinery & Engineering Components



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P.T.F.E. / Fluoropolymer / Fluorocarbon Coatings for Marine & Offshore Applications – TEFCOT™

For Marine / Offshore / Oil and Gas

SALT WATER CORROSION RESISTANT

- ✓ Superior Salt-Water & Atmospheric Corrosion Resistance
- ✓ Controlled Friction & Anti-Galling Performance
- ✓ Precise Torque Control for Fasteners
- ✓ High Durability & Abrasion Resistance
- ✓ Colour Identification Options
- ✓ Reduced Maintenance & Downtime

Components used in marine, offshore wind, and oil & gas environments are continuously exposed to salt spray, humidity, UV radiation and aggressive chemicals. TEFCOT™ PTFE & fluoropolymer coatings provide long-term corrosion protection, controlled friction & cad reliable mechanical performance in these extreme conditions.

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TEFCOT™ PTFE & fluoropolymer coatings provide long term corrosion, controlled friction and reliable mechanical performance in these extreme conditions.



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P.T.F.E./ Fluoropolymer Coated Vessel, Valve Body & Flanges – TEFCOT™

For Chemical Processing Applications

CHEMICAL RESISTANT • ANTI-CORROSION • HIGH TEMPERATURE STABLE

- ✓ Exceptional Chemical & Acid Resistance
- ✓ Withstands Aggressive Chemical Environments
- ✓ High Temperature Stability up to **+260°C**
- ✓ Extends Equipment Life & Reduces Maintenance

PTFE./ Fluoropolymer Coatings are applied on vessels, tanks, reactors, valve bodies and flanges to provide superior resistance against aggressive chemicals, acids, alkalis and solvents used in chemical processing industries.

These chemically inert and low-friction coatings prevent corrosion, scaling, product build-up and contamination while ensuring safe, reliable and long term operation in demanding industrial environments.

Applications

- ✓ Chemical Processing – Reactors, Storage Tanks & Agitator Vessels
- ✓ Valve Bodies – Acids, Alkalis, Solvents & Corrosive Fluids
- ✓ Pharmaceutical & API
- ✓ Petrochemical – Process Vessels
- ✓ Protection – Corrosion Resistant Linings
- ✓ Food & Beverage – Hygienic & Easy-to-Clean Surfaces
- ✓ Water Treatment – Chemically Treated Water Systems.



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P.T.F.E Coatings for Hoppers & Vessels for Pharma and Chemical Applications - TEFCOT™

FDA COMPLIANT • NON-STICK • CHEMICALLY INERT

FDA COMPLIANT • NON-STICK • CHEMICALLY INERT

FDA Approved

- ✓ Smooth Non-Stick & Chemically Inert Surface
- ✓ GMP-Compliant - Hygienic Processing
- ✓ Uniform Material Flow & Minimal Residue Retention
- ✓ Efficient Cleaning & Faster Batch Changeover

TEFCOT™ P.T.F.E. coatings are designed for use in pharmaceutical manufacturing environments where hygiene, product purity, and process consistency are critical. These coatings provide a smooth, non-stick, and non-reactive surface suitable for equipment operating in GMP-compliant clean-room conditions.

TECHNICAL SPECIFICATIONS

★ FDA Approval: Yes

Typical Coating Thickness: 40–50 Microns

Operating Temperature Range:
–100°C to +260°C

Chemical Resistance: Excellent resistance
to acids, solvents & chemicals

Applications

- Hoppers & Bins
- Clean Room Machinery & Equipment
- Tablet & Capsule Manufacturing Lines
- Mixers, Blenders & Process Vessels
- Conveying & Handling Components



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Polyamide / Rilsan® Nylon Coatings – TEFCOT™

For Oil & Gas & Automotive Components

ABRASION RESISTANT • CHEMICAL PROTECTED • IMPACT TOUGH

- ✓ Exceptional Abrasion & Wear Resistance
- ✓ Corrosion & Chemical Protection
- ✓ Flexible & Impact-Resistant Coating
- ✓ Thickness: 250–500 Microns

Polyamide / Rilsan® Nylon coatings are engineered to protect critical components used in oil & gas and automotive industries where durability, corrosion resistance and mechanical reliability are essential.

These coatings provide a tough yet flexible protective layer that resists abrasion, fuels, oils, greases, and harsh operating conditions while maintaining smooth mechanical performance of various shapes and sizes.

Available in thicknesses ranged from 250 to 500 microns (0.25–0.5 mm), **Rilsan®** coatings can be applied on valves, flanges, fittings, and structural components of various shapes and sizes.

Key Advantages



-  Resistant to fuels, oils, numerous mechanicaliseb
-  Reduces wear & mechanical failures
-  Noise & vibration dampening
-  High flexibility under mechanical stress
-  Protective & decorative finish options



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Coated Medical Bipolar Scissors & Forceps – BLION™

PTFE Insulation Coatings for Electrosurgical Instruments

PRECISION INSULATION • CONTROLLED ENERGY • SURGICAL SAFETY

- ✓ Thick, Uniform PTFE Insulation Coating
- ✓ Precise Current Control & Focused Energy Delivery
- ✓ Prevents Unintended Thermal Spread
- ✓ Enhances Surgical Safety & Instrument Durability

BLION™ P.T.F.E coatings are specially engineered for unipolar and bipolar surgical scissors, forceps and electrosurgical instruments used in precision medical procedures.

During surgery, low-voltage electrical current passes through the instrument to cut or coagulate tissue. Without proper insulation, unintended current spread may cause thermal injury to surrounding tissue.

BLION™ applies a thick, uniform PTFE insulation layer that ensures controlled current distribution and safe, focused energy delivery at the instrument tip while protecting adjacent tissue and improving surgical precision.

Applications

-  Bipolar Forceps
-  Electrosurgical Scissors
-  Surgical Cutting Instruments
-  Precision Medical Devices



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OUR SURFACE PREPARATION & COATING PROCESS

Precision Engineered for Long-Term Performance

At BLINEX FILTER–COAT PVT. LTD., every TEFCOT™ coating undergoes a controlled and quality-driven process to ensure superior adhesion, uniform thickness, long-term corrosion resistance and consistent performance in demanding industrial environments.

1 Surface Preparation

To ensure the substrate is completely free from impurities and properly conditioned for coating adhesion.



2 Controlled Spray Systems

- Precision spray application of liquid fluoropolymer systems
- Uniform film build-up
- Controlled environmental conditions
- Multi-layer application (Primer + Midcoat + Topcoat if required)

- ✓ Ensures optimal bonding strength
- ✓ Prevents premature coating failure

3 Electrostatic Powder Coating

- Electrostatic charging for uniform powder distribution
- Improved coating transfer efficiency
- Ideal for thicker protective fluoropolymer

- ✓ Ensures even coverage & thickness consistency

4 Oven Curing Process

- Controlled temperature curing cycles
- Proper sintering of fluoropolymer resin
- Ensures chemical resistance & non-stick performance

- ✓ Develops full mechanical & chemical properties

QUALITY CONTROL & TESTING


5 Thickness Measurement

- Dry Film Thickness (DFT) measurement
- Calibrated coating thickness gauges
- Application-specific thickness verification


6 Adhesion Testing

- Cross-hatch testing (where applicable)
 - Bond strength verification
- ✓ Confirms coating-substrate bonding reliability




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