



TRACLON

Traction, Release Coatings

In short, MBI's Traclon coatings consist of combining non-stick /release materials with hard matrix materials such as tungsten carbide to form a surface covering /coating. We apply Traclon Coatings uniformly per specs or customized to suit your specific application. We offer various types of coatings with distinct surface feel, thickness and finish that's suitable for specific surface property or requirement. [We even have a Traclon variation that is FDA compliant for food contact applications!!](#) MBI coatings can help you engineer better surfaces for your parts.

Traclon™ coated surfaces exhibit astounding non-stick properties and at the same time traction & tension control capabilities. Traditionally, such coatings were referred to as "PLASMA-RELEASE". MBI's Traclon improves on such tradition with the best performing non-stick you will find on the market, period.

Typical Properties:

Non-Stick: Excellent: <1 gram of force to pull off sticky tape

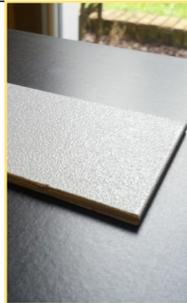
Friction Coefficient: High (will not allow slip or creeping)

Bond Strength: Very high, 10,700 psi (including metallic matrix) (ASTM D2197).

Thickness: Typically .005"-.007" (can be varied to suit your applications)

Texture: Typically 100—300 Ra (Suede-feel) that can be varied to suit your application

Thermal Properties: Very accommodating, -65° to over 650°+ F



MAIN FEATURES:

Extreme Non-Stick: Will not allow any tape adhesive, glue, molten material, film or anything else stick to them. Traclon coatings are considered to have the best release properties with the most durability in our industry.

Adjustable Traction: Traclon has the ability to be customized based on traction needs. For more aggressive traction, coating thickness is increased to "grip" parts, products or films better (such as on a drive roll). If low friction is needed, Traclon is applied lighter and materials are able to run smoothly along the guide roll surface.

TRACLON as an ENGINEERING TOOL:

Web Control: Unlike temporary wraps and glue-on covers, our coatings are homogeneous and uniform without spiral lines that cause creep and drift. Traclons' combination of release with traction control is ideal for coating low inertia rolls made of thin aluminum or non-steel substrates



Project Flexibility: Traclon™ coatings are applied onto many different surface materials and shapes. They have excellent cohesive strength and ductility, thus they have the ability to withstand abuse, expansion and contraction without delaminating. Traclon is also able to be applied to a variety of non-metal substrates such as Rubber and Carbon Fiber among others. *See Traclon 100 for more information on this aspect.*

Other advantages of TRACLON coatings include:

- Low temperature cure and a no-bake version available
- Customizable coating thickness allows for job-tailoring
- Silicone or Fluoropolymer based coatings
- Endless variations for specific property and application needs
- Temperature thresholds up to 900°F+
- Electrical Conductivity varies, able to be conductive or non-conductive



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MBI is a full service company that provide design and repair coatings for various industries, with expertise in surface engineering to enhance or refurbish your components in-house or on-site.

Application examples:

Industries include: Non-woven, Converting, Tire & Rubber, Paper, Printing, Tapes, Film, Laminate, etc.

Machine parts of all types where maximum non-stick properties are required, such as:

Rolls of all types include:

Guide Rolls	Adhesive Tape Rollers
Drive Rolls	Catch Pans
Transfer Rolls	Ink Trays
Idler Rolls	Glue Pans
Nip Rolls	Grip Fingers
Stretch Rolls	Bottle Fixtures
Die Cutting Rolls	Peeler bars, Seal bars
Chutes	Mold Surfaces

Typical Variations of TRACLON Coatings:

Traclon 100 Release material only; can be applied directly to a variety of unique substrates including Rubber, Silicone, Carbon Fiber, Fiberglass, Metals and much more. Good to 500°F with decent abrasion resistance.

TRACLON 200 Fine hard chrome carbide alloy infused with polymer, ideal for traction with extra non-stick. The peaks serve well for gripping while the polymer serves well for releasing. **** Our most popular Traclon variation****

TRACLON 300 is a hard stainless steel alloy infused with non-stick polymer, forming a coating surface considered to be excellent for maximum release & non-slip applications.

TRACLON 400 Chemical resistant non-stick coatings resistant to most chemicals and solvents. The surface has a satin feel with traction-release properties. (Color: Blue)

TRACLON 500 Non-stick polymer materials fused into ultra-fine tungsten carbide forming a fine satin-like finish around 120 Ra. This coating is extremely wear resistant.

TRACLON 600 Heat resistant plasma-release coating that can resist temps up to 650 F. This coating has traction-release properties with a fine texture. (Color: Red).

TRACLON 700 Ceramic (Titanium oxide) infused with release polymer, forming a very fine non-stick ceramic satin finish. This coating is extremely wear resistant. Thickness range .003"- .008".

TRACLON 1000 consisting of an ultra-hard alloy (boron / carbide) infused with non-stick polymer. The coated surface becomes very non-stick with a distinct nodular feel. (Color: Metallic Silver)

TRACLON X Release polymer with the highest temperature resistance yet; great non-stick tested to 900°F with minimal loss! This coating has a lower coefficient of friction than others of this category, making it suitable for many applications where traction is not a concern. (Color: Black)

TRACLON FDA Stainless steel or carbide base with release polymer embedded. Customizable coating thickness and surface finish allows for aggressive or delicate operations. **FDA compliant for Food Contact!!**