

TRACTEC

Traction & Grip Coatings

At MBI, we apply engineered coatings, some designed for traction & grip using advanced HVOF, Plasma-spray, Arc spray, Powder and Wire flame sprayed coatings. Such coatings are used for mechanical grip type applications, non-slip and to maintain consistent feed such as on drive rollers and feed rollers.

We can produce a wide variety of textures according to your needs. Unlike glue-on sand-paper and other temporary methods, MBI's TracTec coatings are considered permanent. The gripping surface we produce is extremely tough and long lasting. The coatings are repeatable, consistent and can be re-applied once they wear out after prolonged use.

Your material being plastic, paper, fabric or foam are transported consistently with fewer interruptions due to web breaks and poor web traction. Therefore, your maintenance is decreased and shut downs are averted.

Typical Properties:

Materials Used: Tungsten carbide, chrome carbide, titanium carbide, hard stainless steel, amorphous alloy, ceramics and more...

Hardness: Non-Marring to beyond 75Rc hardness

Bond Strength: Very high, Over 10,000psi (will not chip or flake)

Thickness: From .003" - .250" build-up

Texture: Customizable; can be varied from fine Ra finish to 80 grit sand paper equivalence. Can also be adjusted for either rounded "peaks" or a sharp, rough feel.



MAIN FEATURES:

Extreme Wear Resistance: TracTec is a long-term solution for applications that see serious abuse and wear. Unlike wraps and liners, Trac-Tec fuses to substrates, giving it superior adhesion, hardness, wear and abrasion resistance.

Adjustable Traction: TracTec has the ability to be customized based on traction needs. For more aggressive traction, coating thickness is increased to "grip" parts, better (such as on a drive roll). If low friction is needed, TracTec is applied lighter and with materials that have smooth "peaks" so as to not interfere with running products

TRACTEC as an ENGINEERING TOOL:

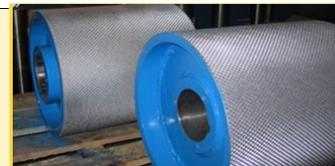
Limitless Options: Our advantage is clear, by utilizing our various metal spray processes and multitude of materials, we can apply a coating onto your parts surfaces to create a finish that suits your application best.

Homogenous, Fused Coatings: The coatings are extremely tough and durable, unlike sand paper glue-ons or wraps and other temporary methods, MBI's TracTec coatings will become part of your component, permanent and long lasting. There's no need for glues and adhesive and constant maintenance. After a long useful life of service, the same component can be easily stripped and re-coated.



Other advantages of TRACTEC coatings include:

- Wide material range has ability to meet any specification
- Customizable coating thickness allows for job-tailoring
- Can be used in conjunction with MBI's Traclon release coatings
- Endless variations for specific property and application needs
- Offers superb life and wear resistance compared to wraps
- Electrical Conductivity varies, able to be conductive or non-conductive



Application examples:

Industries Include: Mining, Oil and Gas, Tire and Rubber, Automotive, Paper Mills, Non-Woven, etc.

Machine Parts of all types where maximum or controlled traction/roughness is required, such as:

Friction Discs/Pins	Winder Drums
Carpet Rollers	Reels
Feed Rollers	Grooved Rollers
Paper Rollers	Cutter Spheres
Grip Fingers	Saw-Blade Ends
Traction Bars	Step Surfaces
Sheet Metal Clamps	Paper Feeders

Typical Variations of TRACTEC coatings:

Because the traction of the coating depends substantially on the degree of its surface roughness, nearly any material or alloy can be used to create a traction coating. However, in most applications where a traction coating is required there is also a great amount of wear; therefore, the most common traction coating materials are carbides and hard stainless steels.

How We Name Them

Each coating series listed below has various surface finish options. We define them by sandpaper-grit equivalents as it is almost a universal language. For instance; TracTec B-220 will have a surface finish of 220-grit sandpaper.

TRACTEC-B *Boron carbide alloy based grip coating. Featuring extreme toughness due to their particle hardness over 75 Rc. Another distinct feature of TracTec-B is the sharpness of its peaks, useful for gripping materials securely without the chance of slippage.*

TRACTEC-S *Stainless steel based grip non-slip coating. Such coatings offer an aggressive type surface without the extra sharp peaks, which could be favorable in certain applications.*

TRACTEC-T *Tungsten carbide based traction coatings. Very high hardness (65+ HRC) mixed and excellent ductility create a coating perfect for walkways, platforms and other surfaces needing traction enhancement.*

TRACTEC-X *By blending a combination of materials, we can create extra aggressive grip coatings that feature added surface roughness finish beyond the other TracTec family of coatings. Custom mixes allow us to also cater to your property needs like corrosion or thermal resistance.*