

VIRACOAT-1661

Nano Ceramic Clear Non-Stick for Cutlery

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VIRACOAT-1661 is a high performance, single component, wipe-on, ambient air cured product.

VIRACOAT-1661 creates a covalent bond to the substrate, giving it an intrinsic bond to the surface.

VIRACOAT-1661 is an inert (benign) material when cured. FDA approved for food contact.

VIRACOAT-1661 on cutlery; reduces drag, keeps edges sharper longer, stops corrosion with no oil.

VIRACOAT-1661 Properties:

• Color	Clear
• Viscosity	12 sec. #2 Zahn
• Percent of Solids	14
• Odor (liquid)	Slight Solvent
• Odor (cured)	None
• V.O.C.	Exempt per CFR 51.1 / regulation 8
• RoHS	Compliant
• REACH	Compliant
• Halogens	None
• Thermal Stability (cured)	1200°F + (648.8°C)
• Conical Bond (1/8 inch mandrel)	Passed (ASTM D522-93a)*
• Cross cut adhesion	5B (ASTM D3359)*
• Coefficient of Friction	0.03μ (ASTM D2047)
• Specific Gravity	0.889 (ASTM D891-09)
• Pencil Hardness	8h (ASTM D3363)*
• Average applied dry film thickness	2 to 3 microns
• Estimated Coverage Rate(@ 2-3 microns)	2,800 sq./ft.+ per gallon
• Transfer to surrounding material	Zero (0) (non-toxic)
• Dry to Touch (time @ambient)	15 – 25 minutes** (average)
(** a warm airflow will help decrease time to dry and cure)	
• Ambient Cure Time	12 hrs
Exposing to a warmer air flow (not exceeding 110°F) will shorten the cure time	
• After Curing Process	wash before use

VIRACOAT-1661 Application:

VIRACOAT-1661 is a Nano Ceramic Super Slick Non-Stick Clear that when applied correctly offers an unparalleled Non-Stick surface that is renewable as needed.

- For proper application of the VIRACOAT-1661 Nano Ceramic Slick Non-Stick coating material, the intended surface, (metals, ceramics, composite or other coatings), must be clean and free from oils, dirt and any other previous contaminants that may on the surface.
- VIRACOAT-1661 is normally used on surfaces where one or two applications are all that is necessary to seal the surface. The coating may be applied by a wipe-on or dip method over metal or hard type surfaces.

- o **Step 1** -- Apply VIRACOAT-1661 with a dampened lint free cloth in a forward stroke to cover all of the intended surface. Work it into the surface to fill all pores or scratches. Then with very light pressure, re-wipe the surface to be sure that there is a wet glossy, but thin (2-3micron) film on the surface.
- o **Be sure to coat the cutting edge, but do it so as to not be cut.**
- o The VIRACOAT-1661 is to be applied at a dry film thickness of 2-3 microns.
- o **Note!** more is not better**. – BUT do not wipe the surface dry or free of any coating as this will not create a slick non-stick coating.
- Allow the VIRACOAT-1661 to ambiently dry or dry to the touch,
 - o Usable ambient cured properties are obtained in approximately 12-24 hrs after application, at room temperature).
 - o If oven curing is possible, max properties are obtained in approximately 20 minutes at 350F. (allow coating to dry to the touch, prior to elevating the temperature).
 - o ****Important Note!** – more is not better, if application techniques allow the VIRACOAT-1661 to become too thick – or heated to hot prior to being dry to the touch, the product may become sticky or gummy* vs. a non-stick coating.
*In that case; to remove the sticky by wiping off with MEK, or other solvent.
- Once fully cured, wash in soapy water, rinse, dry and Use

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