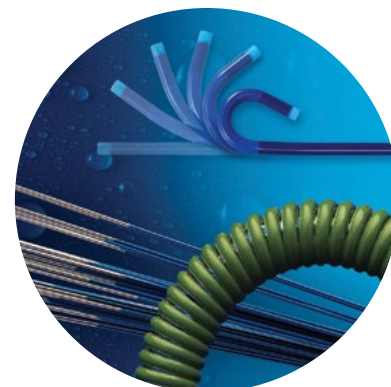


SOLUTIONS GUIDE

Performance beyond the surface.

Integer Medical Coatings combines specialized surface technologies with integrated capabilities to deliver manufacturing from components through finished devices. From machining and extrusion through assembly, packaging, and sterilization, your program is supported within one quality system.



FIND YOUR PLATFORM

Compare coating platforms based on your substrate and performance requirements. Our coating experts can help identify the right solution for your device and application.

		COATING PROPERTIES	BEST SOLUTION
SUBSTRATE MATERIAL	Metal	PTFE—dry lubricity + mold/mandrel release	GlideLine™
		Wet lubricity for insertion + trackability	HYDAK™ Hydrophilic UV & Thermal Curing
		Electrical insulation, thin conformal barrier	VSi Parylene™
		Wear + galling resistance	IonGuard™
		Abrasion, durability & Corrosion resistance, enhanced color performance and embedded printing	MICRALOX™
		Osseointegration, controlled texturing	Surface Texturing™
	Polymer	Wet lubricity for insertion + trackability	HYDAK™ Hydrophilic UV & Thermal Curing
		Conformal insulation, thin dielectric barrier	VSi Parylene™

HOW THE SIX PLATFORMS COMPARE

Ratings use a 1-10 scale with 10 being the most suitable application based upon internal testing, usage, and knowledge about these coatings.

		GlideLine™	HYDAK™	VSi Parylene™	IonGuard™	MICRALOX™	Surface Texturing™
CRITERION	Lubricity, dry	10	3	7	6	5	5-6
	Lubricity, wet	7	10	6	7	5	5-6
	Dielectric strength	8	4	10	5	4	2
	Mold/mandrel release	10	4	9	4	3	3-4
	Durability/wear resistance	9	9	9	9	10	8
	Corrosion Resistance	6	4	9	8	10	6
	Substrate breadth	8	9	9	7	5	7

1-10 scale with 10 being the most suitable application.

*PFAS-FREE, BUILT IN

Nearly all of our medical coating technologies are PFAS-free by design. Across a broad range of coating platforms and applications, our PFAS-free solutions help customers stay ahead of evolving PFAS requirements while supporting long-term product continuity.



EXPLORE EACH COATING PLATFORM

Use the table below to connect your device requirements to a coating platform for discussion with Integer Medical Coating experts.

NEED	PLATFORM	APPLICATIONS	VALUE
Dry lubricity, low-friction movement, or mold / mandrel release	GlideLine™	Guidewires, hypotubes, needles, mandrels, shafts, metal instruments	Smooth movement, dry lubricity, chemical resistance, durability, and release performance
Low friction for insertion, delivery navigation, and/or trackability in a wet environment	HYDAK™ Hydrophilic UV & Thermal Curing	Catheters, sheaths, dilators, cannulas, guidewires, hypotubes, needles	Lubricous and durable hydrated performance, low particulates, PFAS-free
Thin conformal barrier or dielectric protection, tie layer, polymers (room temp)	VSi Parylene™	Sensors, electrodes, implants, PCBs, electronics, cables, braided wire, silicone tubing, O-rings, hypodermic needles	Ultra-thin conformal protection for barrier, dielectric, and insulation needs
Wear resistance, hardness, or galling resistance	IonGuard™	Orthopedic implants, high-contact components, bearing surfaces, robotic joints, pivot points, tooling interfaces	Surface durability for demanding wear environments
Corrosion resistance, abrasion resistance, and product identification with color or etching	MICRALOX™	Aluminum instruments, reusable devices, trays, surgical robotics components, orthopedic power tools	Corrosion resistance, surface durability, and color identification
Osseointegration, adhesion promotion, or controlled roughness	Surface Texturizing	Spine implants, orthopedic implants, dental implants, implantable fabrics, engineered metal, or polymer surfaces	Surface functionality through engineered roughness, adhesion support, and texture control while preserving radiolucency and mechanical properties

Ready to find the right solution for your device and application?

Contact our coating experts to discuss your application and identify the surface technology that best meets your performance and manufacturing requirements.

Contact us at integermedcoatings@integer.net

Application Note: Coating selection depends on device design, substrate, use environment, sterilization method, regulatory requirements, and performance goals. Integer can help evaluate the best coating option based on the specific application.



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