

Ranbar Products ELECTRICAL VARNISHES													
	Product	Resin Type	Thermal Class	UL	Viscosity (cps)	Typical Cure	Bond Strengths		Dielectric Strength (volts/mil) ASTM D115		Special Property	Application	Description/Special Property
							ASTM D2519 @ 21 °C lbs	ASTM D2519 @ 150 °C lbs	DRY	After 24 hrs water immersion			
EPOXY	U2002	Epoxy	H(180)	Yes	700	4 hrs @ 300 °F	61	13	3050	2150	General Use	MV/Traction Motors	Low viscosity general purpose epoxy (VPI/Dip) Single Component
	U2002T	Epoxy	H(180)	Yes	3,500	4 hrs @ 300 °F	82	18	3050	1650	Thixotropic/High Build	MV/LV/Traction Motors/Transformers	High build thixotropic resin (VPI)
	U2002HVR	Epoxy	H(180)	Yes	1,000	12 hrs @ 300 °F	68	15	3050	2150	High Voltage Resin	High Voltage Motor Motors/Transformers	HV machine impregnation (VPI)
	U2002WW	Epoxy	H(180)	Yes	24,000	4 hrs @ 300 °F	99	30	2520	2160	Heat Transfer	DC/AC Coils Endwindings	UL wet winding compound
	U2220	Epoxy	R(220)	Yes	4,500	8 hrs @ 300 °F	84	19	4800	2900	UL220 Class Epoxy	Traction Motors Transformers	Epoxy for severe duty applications (VPI)
SOLVENT BASED VARNISHES	U372	Alkyd	H(180)	Yes	200-300	Air Dry	-	-	-	-	Fast Drying	Motors	High build polyester solvent varnish (Spray/Dip)
	U250	Epoxy/Phenolic	H(180)	No	45	4 hrs @ 300 °F	50	13	3800	3550	Chemical Resistance	Hermetic Motors	Epoxy phenolic varnish, freon resistant (Dip)
	U380X	Phenolic Mod.	H(180)	Yes	130	4 hrs @ 300 °F	45	4	1660	1220	High Bond Strength/ Tank Stability	Transformers/Motors	UL solvent varnish for general purpose (Dip)
	RANBAR 5095	Phenolic Mod.	H(180)	No	180-600	4 hrs @ 300 °F	35	2	1660	1220	High Bond Strength/ Tank Stability	Transformers/Motors	Solvent based phenolic for non UL applications (Dip)
	RANBAR RM-14-137	Silicone Mod. Polyester	R(220)	No	225-575	20 min @ 230 °F	-	-	3265	2980	High Heat Resistance	Coils/Electrical Components	Heat resistant varnish up to 400 °F (Spray)
WATER BASED	RANBAR A GOLD	Polyester	H(180)	Yes	250-350	Air Dry	-	-	3140	2750	Class H Air Dry	Ballasts/Transformer	Air dry/force cure water varnish (Dip/Roll Through)
	RANBAR 5200	Polyester	N(200)	Yes	250-500	1 hr @ 330 °F	38	18	3580	3140	High Bond Strength	Transformers/Motors	Baking water varnish
	U2002AQ-50	Epoxy	H(180)	Yes	100-400	4 hrs @ 300 °F	45	7	3000	2300	Highly Tank Stable Epoxy Emulsion	Motors	Extremely stable water based varnish
	U2002AQ-25	Epoxy	H(180)	Yes	40-350	4 hrs @ 300 °F	45	7	3000	2300	Highly Tank Stable Epoxy Emulsion	Motors	Extremely stable water based varnish
	U2220AQ	Epoxy	R(220)	Yes	5 - 80	4 hrs @ 150 °C	68	21	3000	2100	220 °C Water Varnish	Transformers/Traction Motors	Epoxy emulsion for severe duty applications
SOLVENTLESS RESINS	U520	Unsaturated Polyester/DAP	H(180)	Yes	600	2 hrs @ 300 °F	48	25	3300	2050	Classified Non-Flammable	Transformers/Motors	Unsaturated polyester with low odor (Dip/VPI)
2-PART SYSTEMS	U2114Flex	Epoxy	H(180)	No	10K-22K	Room Temp	-	-	4800	-	Flexible Encapsulant	General Potting, Submersible Pumps	Flexible 2-part potting compound for general use and submersible pumps
	U2114TCB (BLACK)	Epoxy	H(180)	Yes	10K-22K	Room Temp	-	-	4800	-	Anti-tracking	Linear Motors, Transformers, Submersible Pumps	High thermal conductivity. 2-part potting compound for general use and submersible pumps
	U2020	Epoxy	H(180)	No	300	Room Temp	55	13	2800	2080	High Bond Strength Room Temp Cure	Stators/Rotors	High bond strength ambient cure 2 part epoxy trickle resin
PAINTS	RANBAR RED	Polyester	F(155)	No	N/A	Air Dry	-	-	-	-	Supplied Ready to Spray	Electric Motors/Windings	Air dry red insulating paint
	RANBAR 5079	Epoxy Ester	H(180)	No	N/A	Bake	-	-	-	-	Supplied Ready to Spray	Electrical Windings	Baking red insulating paint
	Other colors available in solvent or water												

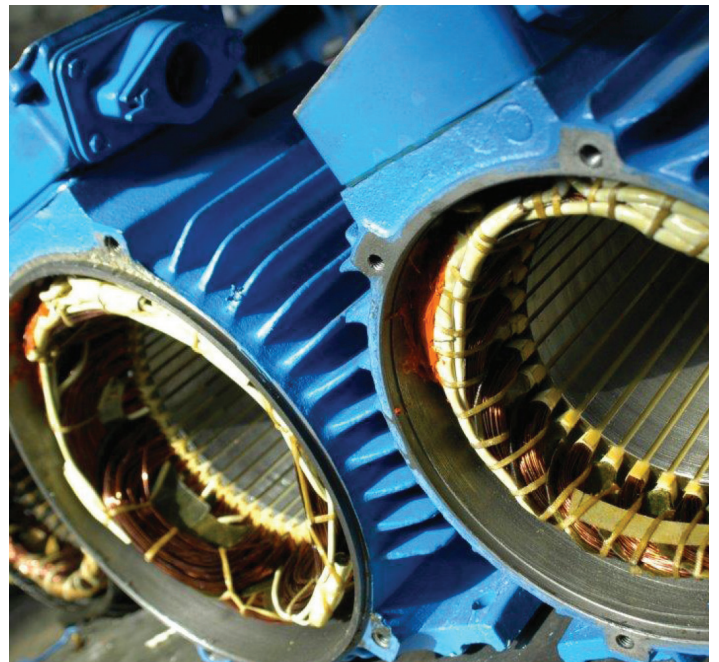
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ELECTRICAL VARNISHES FOR ADVANCED COATING PERFORMANCE

Gabriel's Ranbar product range includes resins, varnishes, and coatings, manufactured to ISO 9000: 2008 standards, for use in the electrical, motor, paint, and steel industries.

In North America, Ranbar has become known as one of the most innovative and dependable brands in the industry for electrical varnishes. We pride ourselves on providing our customers with quality products, responsive service, and on-time delivery.

With a complete line of electrical varnishes, resins and compounds, Ranbar products are available for sale directly or through one of our local distributors.



RANBAR RESINS

- Water Based
- AirDry/Force Cure Resins
- Environmentally Friendly
- Low VOC
- Clear and Pigmented Products
- Water/Solvent Based Polyester Resins
- UL Products
- Owned and Operated in the USA

TESTING

- Tank Sample Program
- Bond Strength
- Dielectric
- Thermal Aging

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WITH GABRIEL**

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