

Ultimeg Range

Technical Guide To Selection

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
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Electrical Insulating Epoxy Resins

VOC Free Epoxy Technology
Non Flammable
UL Recognised Products



		Resin type	Thermal Class Class according to UL1446 (temp°C)	S.G G/cm ³	Shelf life Months @ 21°C	Viscosity B4 cup seconds or Poise @ 25°C	Typical cure hrs @	Bond strength ASTM D2519 @ 21°C kg	Bond strength ASTM D2519 @ 150°C kg	Dielectric strength		Special property	Application	Description	
										ASTM D115 DRY kV / mm	After 24hrs water immersion				
100% VOC FREE, EPOXY TECHNOLOGY	Trickle	U2050RR	Epoxy	H(180)	1.22	9	100-150	15 mins @ 120°C 5-7 mins @ 150°C (Induction)	IEC 61033 Twisted Coil @ 23°C >400N	IEC 61033 Twisted Coil @ 155°C > 70N	IEC243-1 >200 kV/cm	Dielectric Constant IEC250 3.9 @ 50Hz	White, rapid cure, hand held, single component, trickle epoxy	Power tool & Automotive armatures, quick repair on small and medium windings.	A rapid cure, single part White Epoxy in a 0.5kg, hand held flexible bottle, with trickle spout. With exceptional thermal capabilities.
		U2020	Epoxy	H(180)	1.12	24	3	Room Temperature	25	6	110	82	High bond, room temperature cure	Stators / Rotors	High bond strength, ambient cure two part epoxy trickle resin.
		U2050GC	Epoxy	H(180)	1.39	9	200-300	20 mins @ 150°C	Tensile strength ISO527 35N/m2	Elongation ISO527 1.2%	Dielectric Strength IEC243-1 168kV/cm	Dielectric Constant IEC250 4.56 @ 50Hz	White, single part, reinforced resin, giving 250-400µm build, up to 180°C	To offer reinforcement on susceptible rotating windings	A single part, white trickle resin, particularly designed for the reinforcement of rotating windings, under elevated centrifugal force, such as the single wires on commutators, and where coil leads start and finish.
	Class C	U2220 UL Pending	Epoxy	C(220)	1.15	12	50	4 hrs @ 165°C	38	8.6	190	115	High Temperature properties	VPI of Traction motors and field coils	UL pending Class 220, high performance VPI Epoxy resin system that exhibits superior properties at elevated temperatures.
	Wet wound	U2001WW	Epoxy	H(180)	1.48	12	Thixo	4 hrs @ 150°C	45	8	100	85	Heat transfer	Wet winding of field coils / end windings	Wet winding resin that cures to give exceptional bond and heat transfer
	Wound cores	U2004LN	Epoxy	H(180)	1.12	12	3.5-5.5	4hrs @ 165°C	Tensile strength ISO527 18N/m2	Elongation ISO527 10%	17.5	13	Resilience	Wound Cores	Flexible void free impregnation of cut cores and transformers.
	Transformers & ferrites	U2003FL	Epoxy	H(180)	1.02	6	4	12hrs @ 105°C 7hrs @ 80°C**	26	5.4	104	75	Low temperature cure	Wound Cores	Impregnation resin applied by dip/VI or VPI. Extremely low viscosity & low temperature cure**. Can be accelerated to cure at lower temperatures and shorter cure times.
	VPI of LV machines	U2006	Epoxy	H(180)	1.15	12	30	8 hrs @ 140°C	35	7	210	115	Resilience	VPI of LV Machines	A resilient single component VPI epoxy resin with excellent stability and high bond strength and electrical properties.
	DIP VPI	U2002L 	Epoxy	H(180)	1.12	12	4	4 hrs @ 150°C	26	5.4	104	75	Low viscosity / no V.O.C	Motors / Transformers	0 V.O.C Epoxy impregnation applied by dip / roll / VPI to all general purpose motors and transformers. UL systems are available for all the 2002 range.
	DIP VPI	U2002 	Epoxy	H(180)	1.14	12	6	4 hrs @ 150°C	28	6	90	70	General purpose VPI	MV / Traction Motors	Single component, General purpose VPI resin giving all the benefits of Epoxy resin.
	VPI	U2002T 	Epoxy	H(180)	1.15	12	35	4 hrs @ 150°C	37	8.3	120	65	Higher film build	LV / MV / Traction / Trafo	Higher build Epoxy VPI resin, where traditional film builds of Epoxy are not acceptable.
	VPI	U2002XT 	Epoxy	H(180)	1.16	12	65	4 hrs @ 150°C	45	8	115	60	Very high film build, Chemical resistance	MV Generators / Motors	Epoxy resin for VPI impregnation of random wound stators and rotors. High build.
	WET WIND	U2002WW 	Epoxy	H(180)	1.52	12	2200	4 hrs @ 150°C	45	8	100	85	Heat transfer	Wet winding of field coils / end windings	UL recognised wet winding resin.
	VPI	U2002HVR (L) 	Epoxy	H(180)	1.14	12	6 (4.5)	8hrs @ 165°C	31	6.8	120	85	High Voltage resin	HV Machine impregnation	Global impregnation of HV systems where uncatalysed Mica tapes are used up to 15KV.

UL rated products according to OBOR2 file number E220579. UL systems (OBS2) also available for adoption.