



Ultimeg Range

Technical Guide To Selection

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




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Electrical Insulating Varnishes & Resins

OBOR2 UL Recognised Products
OBJS2 UL Systems
Various Chemistry & Applications



		Resin type	Thermal Class	Flash Point	S.G	Shelf life	V.O.C	Viscosity	Typical cure	Bond strength	Bond strength	Dielectric strength		Special property	Application	Description	
		Class according to UL1446 (temp°C)	Abel closed cup °C	G/cm ³	Months @ 21°C	%age	B4 cup seconds or Poise @ 25°C	hrs @	ASTM D2519 @ 21°C kg	ASTM D2519 @ 150°C kg	ASTM D115 DRY Kv / mm	After 24hrs water immersion					
SOLVENT BASED VARNISHES	Oven cure varnish	U250#	Epoxy phenolic	H(180)	26	1	18	58	45	4 hrs @ 150°C	22.7	5.8	150	140	Chemical resistance	Hermetic motors	Epoxy phenolic varnish with excellent freon and refrigerant gas resistance.
		U200FR	Modified polyester	H(180)	43	1	12	45	75	4 hrs @ 130°C	N/A	N/A	160	140	High Build protection	Transformers / Coils	High quality enveloping protection varnish used where exceptional moisture and chemical resistance is required. Remains flexible.
		U370	Modified polyester	H(180)	43	0.99	18	50	120	3 hrs @ 130°C	18	1.2	159	124	Fast or low temp. cure	Transformers / Motors	Resilient, high quality quick curing. General purpose varnish for various applications.
		U380HF 	Phenolic mod Polyester	H(180)	63	0.93	24	53	150	4 hrs @ 130°C	20.5	1.8	166	122	High flash, tank stable, UL approved	Motors / general purpose	High Flash, UL recognised, high build general purpose varnish. Used by many OEM'S and repair shops. UL systems are available.
		U380 	Phenolic mod Polyester	H(180)	40	0.93	24	50	130	4 hrs @ 130°C	20.5	1.8	166	120	High bond, tank stable, UL approved	Motors / general purpose	UL recognised high build general purpose varnish. Used by many OEM'S and repair shops. UL systems are available.
	Air drying varnish	U376	Alkyd	F(155)	27	0.94	12	68	25	Air drying	N/A	N/A	65	28	Cost effective	Transformers / LV motors / coils	Low viscosity, fast drying sealing and tropicalising varnish for small motors and transformers.
		U372 	Alkyd	H(180)	27	0.97	18	58	180	Air drying	N/A	N/A	72	30	Fast drying, CTI 180	Motors / transformers	High build alkyd air drying varnish. Available in pigmented versions as anti-tracking enamels. UL systems are available.
SOLVENTLESS RESINS	Dipping / VPI / Roll Dip Resins	U505	Unsaturated Polyester	H(180)	31	1.69	9	100% Reactive	105	2hrs @ 130°C	19	5	100	46	Heat Transfer	Lighting ballasts	White pigmented ballast resin where heat transfer is a necessity.
		U510	Polyester	H(180)	65	1.03	12	5	40	4 hrs @ 130°C	N/A	N/A	140	70	Flexible	Transformers, ferrite cores	Flexible, high build up polyester resin for application by VPI in transformers. Very good noise reduction properties.
		U520 	Unsaturated Polyester	H(180)	166	1.18	12	5	6	4 hrs @ 130°C	22	7	130	81	Not classified as flammable	Motors / Transformers	Low odour, high flash point single component resin for VPI, roll and immersion applications. UL systems are available.
		U540 Pig	Unsaturated Polyester	H(180)	31	1.08	12	5	60	2hrs @ 130°C	19	5	155	112	Pigmented impregnation	Transformers	Pigmented impregnation coating for transformers, available in most RAL colours
		U550	Unsaturated Polyester	H(180)	>200	1.1	6	0	20	3hrs @ 130°C	16	4	100	60	Low V.O.C fast process	Transformers / Motors	Low V.O.C impregnation by Dip / Roll / VPI of Motors / Transformers where fast, Low temperature process is required.
	Trickle Resins	U530A&B	Unsaturated Polyester	H(180)	31	1.08	3	100% Reactive	2-2.5	Induction	25	10	155	112	High bond	Stators / Rotors	General purpose high bond two part trickle resin.
		U530GC	Unsaturated Polyester	H(180)	31	1.2	3	100% Reactive	40	Induction	19	5	130	108	High build	Domestic appliances	Blue reinforced Gel Coat for high speed armatures.
WATER BASED	Aquameg	A300 	Polyester	H(180)	N/A	1.04	18	3	50	4 hrs @ 130°C	22	3.5	135	112	Cost effective	Motors / Transformers	UL recognised general purpose VOC compliant water based varnish.
		A850	Phenolic Mod Polyester	H(180)	N/A	1.03	18	3	50	4 hrs @ 130°C	22	4.8	139	119	High bond, tank stable	Motors / General Purpose	VOC compliant water based varnish with high bond strength even when used at low solids levels.
		A770	Hybrid	H(180)	N/A	1.02	12	<2	80	Air drying	N/A	N/A	152	118	Quick Air dry, h2o based anti track	Motors / Transformers	Low VOC Air dry varnish available in Clear and Pigmented versions. Fast air dry, good all round properties. Replacement for High VOC Air dry Varnishes
		A1000	Epoxy Emulsion	H(180)	N/A	1.05	12	0	30-60 cps	4 hrs @ 150°C	26	5.5	105	100	Chemical resistance & Bond strength	LV Motors / Hermetic Motors	0 VOC Epoxy Emulsion with excellent bond strengths at elevated temperatures and good resistance to chemicals including those used in Hermetic applications.
		2002AQ 	Epoxy Emulsion	H(180)	N/A	1.09	12	0	30-30 cps	4 hrs @ 150°C	20	3	100	70	General Purpose Impregnation	LV Motors	0 VOC UL Recognised Epoxy Emulsion for impregnation of low voltage motors.
ANCILLIARY PRODUCTS		U2220GP	Epoxy	H(180)	N/A	2	12	0	Putty	3 hrs @ 150°C	N/A	N/A	210	115	1 component putty	Filling putty rotating machines	Single component filling putty compatible with U2002 & U2220 series Epoxy resins. Fills gaps in windings on rotating or static machines. Available in UL systems.
		U8001	Epoxy	H(180)	N/A	1.13	12	0	130Ps	30 mins-1 Hr	LAP SHEAR > 3500 psi (Mld Steel)		N/A	N/A	High shear strength	Multi purpose Epoxy Adhesive	Multi purpose Epoxy Adhesive. Rapid cure at ambient temperture with extremely high shear strength.
		XP1	Epoxy	F(155)	N/A	2.2	12	0	Putty	5 hrs @ 20°C	N/A	N/A	N/A	N/A	2 component putty	Rotors and armatures	Two component balancing putty.
		PMC	Acrylic	N/A	N/A	1	36	0	280	Air drying	N/A	N/A	N/A	N/A	Removable	Masking compound	Solvent free, water based masking lacquer.
		U705	Cellulose Acetate	N/A	<22	0.95	24	65	Thixo	Air drying	N/A	N/A	N/A	N/A	Removable	Masking compound	Rapid drying, traditional blue masking lacquer.
		U720	HT Masking Grease	N/A	N/A	0.9	36	0	Grease	No cure	N/A	N/A	N/A	N/A	High temperature	Masking Grease	Masking solution for all types of surfaces prior to Dip or VPI impregnation methods. Protects surfaces from Polyester and Epoxy resins without causing contamination to tanks. Easily wiped clean post impregnation cure.

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