

Ultimeg Range

Technical Guide To Selection

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Electrical Insulating Varnishes & Resins

OBOR2 UL Recognised Products
OBJS2 UL Systems
Various Chemistry & Applications





'			Resin type	Thermal Class Class according to UL1446 (temp°C)	Flash Point Abel closed cup °C	S.G G/cm³	Shelf life Months @ 21°C	V.O.C %age	Viscosity B4 cup seconds or Poise @ 25°C	Typical cure	Bond strength ASTM D2519 @ 21°C kg	Bond strength ASTM AS D2519 @ 150°C K	TM D115 DRY v / mm	After 24hrs water imersion	Special property	Application	Description
SOLVENT BASED VARNISHES	Oven cure varnish	U250#	Epoxy Phenolic	H (180c)	26	1.00	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 (180c)	43	1.00	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 (180c)	43	0.99	18	50	120	3 hrs @ 130°C	18	1.2	159	124	Fast or low temp.	Transformers / Motors	Resilient, high quality quick curing. General purpose varnish for various applications.
		*U380 c % us	Phenolic Modified Polyester	H (180c)	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 (155c)	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 c %\ us	Alkyd	H (180c)	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	Resin	U510	Polyester	H (180c)	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.
	& Dipping	*U520 c % us	Unsaturated Polyester	H (180c)	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.
	VPI 8	U540 Pig	Unsaturated Polyester	H (180c)	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
WATER	ameg	*A300 c % us	Polyester	H (180c)	N/A	1.04	18	3	50	4 hrs @ 130°C	22	3.5	135	112	Cost effective	Motors / Transformers	General purpose VOC compliant water based varnish
	Aqua	A850	Phenolic Modified Polyester	H (180c)	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.
		XP3	Ероху	H (180c)	> 145c	2.00	12	0	Putty	20-30 min to gel 25g @ R-T	N/A	N/A	N/A	N/A	Class H, Quick Cure	Balancing, gap filling, light ballasts in transformers and sealing.	Two part class H (180c), 1:1 mix ratio, coloured magenta and blue, which when mixed properly gives a uniform Purple to ensure uniform mixing. Fast curing and excellent chemical and physical properties particularly dimensional stability. (Metal, glass, plastics, timber, dry concrete rubber etc). Primarily used as a balancing putty.
		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.
PRODUCTS		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.
ANCILLIARY PROD		UF820	Ероху	B (130c)	N/A	1.68	> 12 Months	0	Thixotropic	4 hours @ 60c	N/A	N/A	N/A	N/A	Thixotropic trowelling compound	Encapsulation of stator end windings	Part A, Part B, brick red, two part 50 / 50 mix. Epoxy protection of stator end windings against moisture, oil, dust and carbon ingress.
		Ultiflex 3028	Polybutadiene (PBD)	F (155c)	> 180	1.10	12	0	(Base) 300- 400	2-4 Hrs @ R-T	N/A	N/A	N/A	N/A	Highly flexible, brush or spray	Encapsulation of motors and generators, for sealing from harmful ingress	Two part flexible PBD compound, available in Black or Natural (Beige), Excellent impact and abrasion resistance at elevated temperature. Superior thermal conductivity and shock resistance, due to the flexible nature over a wide temperature range, (-65c to +155c).
		U2220GP	Ероху	H (180c)	N/A	2	12	0	Putty	3hrs @ 150c	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.
		U8000	Ероху	H (180c)	N/A	1.20	12	0	300Ps	5 mins-12 hrs	Roller peel mm), ISO 45		N/A	N/A	High shear and peel strength	Multi purpose Epoxy Adhesive	Multi purpose Epoxy Adhesive. Rapid cure at ambient temperature with extremely high shear and peel strength. Suitable for use in class H systems and U-L recognised in OBJS2 systems, AEV 155-1 and AEV 180-1.