DOLPHIN COATINGS

Product Data Sheet

TOPLAC C4

توضیحات کلی محصول

TOPLAC C4 یک محصول تک جزئی حلال پایه هواخشک است که بر اساس رزینهای مدیفای شده تولید میگردد. کلاس حرارتی این محصول در گروه H(180 درجه سانتیگراد) و در فامهای قرمز ، سبز، مشکی و شفاف (بی رنگ) و همچنین محصول با ویسکوزیته پایین آماده مصرف قابل ارائه میباشد . طیف کاربرد این محصول برای انواع استاتورها، ترانسفورمرها و سایر سیم پیچها و مصارف عمومی است که سختی ، مقاومت الکتریکی و حرارتی و همچنین مقاومت به رطوبت و مواد شیمیایی از ویژگیهای بارز این محصول میباشد .

جهت اعمال و کاربرد TOPLAC C4 از رقیق کننده SOLVLAC S 150 استفاده گردد و میزان ترکیب رقیق کننده بسته به روش کاربرد- قلم مو ، غوطه وری ، اسپری یه اسپری بدون هوا متفاوت است . این محصول را دور از نور مستقیم آفتاب و شعله و در شرایط استاندارد انبار میتوان بمدت یکسال نگهداری نمود .

Product description

TOPLAC C50 is a Class F, single component, solvent based varnish. It has been designed with a solvent system that balances an optimum evaporation rate with reduced safety risk and thus dries rapidly in thin films at room temperatures – for ultrashort drying times, temperatures up to 155°C can be employed.

TOPLAC C50 dries to give a flexible film that has good adhesion to most commonly used substrates and exhibits excellent resistance to moisture

Areas of application

Preferred applications for TOPLAC C50

- Transformer
- Electronic device
- General use

Properties of cured resin

The tough-hard material displays good mechanical and dielectric properties even under high temperatures. Windings impregnated with TOPLAC C50 show good bond strength. In addition, the dried material displays good resistance to the effects of mechanical tense.

Properties of wet resin

The tough-hard material displays good mechanical and dielectric properties even under high temperatures. Windings impregnated with TOPLAC C50 show good bond strength. In addition, the dried material displays good resistance to the effects of mechanical tense.

Processing methods

TOPLAC C50 is using as a finishing varnish or as impregnating varnish. In the impregnating process it has to be carried out with a corresponding impregnating material.

The flow time of air-drying varnish in opened container will increase permanently due to the evaporation of solvent, film forming can occur additionally. Therefore the containers should be closed carefully after application, the flow time should be checked frequently and adapted with reducer SOLVLAC 100 if required. Like all solvent based products, TOPLAC C50 should be stirred up carefully before each application.

TOPLAC C50 can be applied by dipping, brushing, with flow time when delivered. When it is used as spray, it is recommended to add10-20 % of reducer SOLVLAC 100.

The drying of the varnish will be normally at room temperature, time can be shortened by support of heat, for instance with hot air at 70-90 °C.

It will be necessary to follow instructions of Material Safety Data Sheet (MSDS) for varnish and reducer.

Storage and stability

Under appropriate storage conditions, protected from humidity and solar radiations, TOPLAC C50 and reducer SOLVAC 100 can be stored in unopened container at 20-30 °C for 12 months.

Related products

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TOPLAC C4

Properties of varnish as supplied

Property	Value	Unit
Shelf life at 30° C	12	Months
Appearance/ Color	Liquid/ yellowish	
Density at 23°C, DIN 51757	940-960	g/l
Content of binder (1g/1h/130°C), ISO 3251	34-38	%
Viscosity (Brookfield at 21°C, spindle 2, speed 20 rpm)	200-350	cps
Flash point	25	°C

Drying condition

Surface	25 °C	80°C
Touch-dry	30 min	
Non slip	1 H	
Fully dried	5 H	

Mechanical properties in dried condition

Test criterion	Condition	Value	Unit
Bond strength	23 °C 155°C 180 °C	> 80 - -	N
Mandrel test (3 mm)	23 °C	140	°
Adhesion on steel UNI EN ISO 2409 Double application	40 µ	80	%

Temperature index

Test criterion	Condition	Value
Proof voltage IEC 60172	600 V	-

TOPLAC C4

Dielectric properties in dried condition

Test criterion	Condition	Value	Unit
Volume resistivity after water immersion test following IEC 60464 part 2	Initial value 7 d storing		
Volume resistivity at elevated temperature test following IEC 60464 part 2	155 C° 180 C°		Ωxcm
Electrical strength, after water immersion test following IEC 60464 part 2	Initial value 24 h storing		KV/mm
Electrical strength, at elevated temperature test a following IEC 60464 part 2	155 C° 180 C°		KV/mm
Temperature at relative permittivity tang °= 0,1 test following IEC 60250	Hz 50 KHz 1 10 KHz	- > 130 > 207	°C

Effect of liquid chemicals, including water

Test criterion

Condition

Value

Unit

Resistance to vapour of solvents

Elantas test following IEC 60464 part 2

Acetone

Xylene

Packaging

Elmo 799 21 & 185 kg in M.S. contai
Thinn
in m.s

Desclaimer

This information is intended only for general guidance in the application of our product. It has been obtained by careful investigation and represents the present state of our knowledge and experience. Because of the large number of possible methods of application and processing we are not able to assume responsibility in any one particular case for either the

Safe Handling

Elmo 799 is a flammable liquid. Use foam, CO_2 or dry chemical powder for fire nting. Inhalation and direct contact with skin should be avoided. In case of ntact, the affected area should be shed with soap and plenty of water. For ther details ask for our material safety a sheet 2-55.

Manufacturing site : ELANTAS Italia s.r.l. via San Martino 6, 15028 Quattordio (AL), Italy

www.elantas.com