

VEROPAL 582-1K4

Electro coating

DESCRIPTION

Veropal 582-1K4 is low-viscosity liquid one-component epoxy system with high reactivity.

USAGE

The system is designed for impregnation and winding. Veropal 582-1K4 is very stable one-component epoxy system. Its low viscosity allows excellent penetration into the coil at room temperature. This resin is particularly suitable for low and medium voltage motor in the industrial for alternators or for transformers. After curing has Veropal 582-1K4 excellent dielectric and mechanical properties and outstanding chemical resistance.

PRODUCT PROPERTIES

Viscosity at 25 °C	500 - 1500	mPa.s	EN ISO 12058-1
Viscosity at 40 °C	160 - 260	mPa.s	EN ISO 12058-1
Density at 25 °C	1.1 – 1.3	g/ cm ³	CSN EN ISO 1675
Appearance	yellow	-	-
Epoxy index	5.6 – 6.0	eq/ kg	EN ISO 3001
Epoxy equivalent weight	166 - 179	g/ mol	EN ISO 3001
Flash point	> 150	°C	ISO 1523

Gel time at 110 °C (30 g)	85 - 90	min.
Gel time at 130 °C (30 g)	20 - 23	min.
Gel time 0,15 mm thickness at 160°C	2.5 – 3.5	hour
Pot life at 100 °C	4	hour
Pot life at 80 °C	14	hour

Properties of cured system

Colour	yellow
Odour	very weak
Thermal class	F
Tg (DSC)	85 – 105 °C
Hardness Shore D	75 - 80

PROCESSING

The system is designed for impregnation at atmospheric pressure, under vacuum or at elevated pressure.

Impregnation can be carried out at elevated temperature. The maximum temperature of the pre-heated coils or windings is 90 ° C.

After impregnation, the excess system is allowed to drain at a temperature up to 80 ° C.

The minimum cure temperature is 160 ° C for 4 hours.

Cure time is a function of temperature and size.

PACKAGING

The product is supplied in 1 or 5 l cans (or according to customer requirements).

STORAGE

Product should be stored in a covered, dry and dark place. The temperature of storage and transport should not be below 15 °C or above 25 °C. Under these conditions the expected shelf life is 12 months.

SAFETY DATA

Detailed information is contained in the MSDS.

REMARKS

Information about product properties and application procedures has been obtained by laboratory measurements and application tests. This Information Sheet presents only legally non-obligatory recommendations and product application methods must be in conformity with particular conditions. For all further information you can always contact us.

Issued on: 06/ 2018
Reviewed on: 06/ 2019
Issued by: Research & Service

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The Quality Management System conforms to the Standard ISO 9001

