

Milano, 07.07.2020

Spett.le T&T Metalli

Sig. Ramacci

OBJECT: Equivalenza tra Luperox® K1 E and Retic® C101 E

Egregio cliente,

Certifico che il prodotto Luperox® K1 E e il prodotto Retic® C 101 E sono equivalenti tra loro. Vengono forniti dallo stesso impianto ed utilizzano le stesse materie prime.

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Cordiali Saluti

Stefano Zani



Arkema France

Siège social : 420, rue d'Estienne d'Orves - 92705 Colombes Cedex France
Tél. : +33 (0)1 49 00 80 80 - Fax : +33 (0)1 49 00 83 96
Société anonyme au capital de 274 845 346 euros
319 632 790 RCS Nanterre - TVA Fr 32 319 632 790

LUPEROX® K1S



METHYL ETHYL KETONE PEROXIDE

CAS Nr.: 1338-23-4

EINECS: 215-661-2

APPLICATIONS

Luperox® K1S is Methyl Ethyl Ketone Peroxide used for the cure of unsaturated polyester resins at room temperatures in combination with a cobalt accelerator. Luperox® K1S is used for applications such as hand lay-up, spray up, centrifugal casting, filament winding, polyester concrete, etc. It is particularly suitable for gel coat curing. Its low viscosity makes it ideal for spray-up techniques (airless) with external mixing. Faster reaction with shorter demold times can be obtained by the addition of promoters such as dimethyl aniline.

SPECIFICATIONS

	Units	Values	Method of Analysis
Physical form	-	Clear liquid	AM/I/71/A
Active oxygen	% w	9.0 – 9.4	AM/I/53/C

CHARACTERISTICS

	Units	Values
Density at 20°C	g/ml	1,128
Viscosity at 20°C	mPa s	16
Flash point (setapoint)	°C	65
S.A.D.T (1)	°C	60

(1) Self-Accelerating Decomposition Temperature

DOSAGE

Typical concentrations for Luperox® K1S run from 1 to 3% by weight based on resin and for cobalt accelerator from 0,25 to 4% based on 1% metal content solution. Luperox® K1S is recommended for the curing of ortho- and isophthalic resins at temperatures between 15°C and 50°C.

Replacing Luperox® K1G with Luperox® K1S:

Dosage by weight: Dosage is strictly identical Luperox® K1S and Luperox® K1G to obtain same curing performance.

LUPEROX® K1S

Dosage by volumetric pumps: Because of its slightly higher density, volumetric metering should be increased when replacing Luperox® K1G with Luperox® K1S. **1 volume of Luperox® K1 should be replaced by 0,9 volumes of Luperox® K1S.** The table below simplifies volume dosage conversion:

Dosage volume	
LUPEROX® K1G	LUPEROX® K1S
1	0,90
1,5	1,36
2	1,81
2,5	2,26
3	2,71

CURING PROPERTIES

For comparison purposes, the table below shows activities of different MEKPs.

Product	Gel time	Cure time	Peak exothermic
LUPEROX® K1S	7 minutes	16 minutes	146°C
LUPEROX® K1G	7 minutes	16 minutes	144°C
LUPEROX® K10	5 minutes	10 minutes	144°C

Tests were carried out at 25°C on 25g of medium activity resin pre-accelerated with 1% of LUPERFAST™ CO 1G (cobalt accelerator 1% metal content solution) and with 2% of MEKP.

Luperox® K1S is equivalent in reactivity to Luperox® K1G.

STANDARD PACKAGING

25 kg drums and 4*5 kg.

SAFETY - HAZARD

Please consult the Safety Data Sheet before using the product.

STORAGE - HANDLING

Product can be stored minimum three months after receiving date, if kept in appropriate conditions and below its maximum storage temperature. Refer to the Safety Data Sheet for detailed storage instructions.

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