



SOLDER RESIST 31 537X

Code A31131537X005

PRODUCT DESCRIPTION

SOLDER RESIST with ultraviolet curing.

This ink has an excellent resistance to fluxes and most aggressive solvents

APPLICATION FIELDS

This product is particularly indicated for printing of flowed or reflowed tin-lead professional printed circuit boards.

Furthermore, it is also suitable for flexible copper circuits.

APPLICATION PROCESS

Substrates	PET/Cu and PET/Al KAPTON/Cu
Matrix	Polyester 43-62 Th/cm for Sn-Pb circuit boards and flexible with 70 µ copper Polyester 120 Th/cm for flexible circuit boards with 35 µ copper
Photo emulsion	Solvent resistant
Squeegee	Square edge Squeegee hardness 70-75 shores
Curing	200 W/cm UV Lamps Carpet Speed: 6-10 m/min Power: at least 250-300 mJ
Thinners	DILUENTE REATTIVO 2483-V-43 (Code: A31829004001) Max 2%
Cleaning	SOLVENTE LAVAGGIO LQ 90.920
Storage	If kept in a dark place, in its original sealed package, at a temperature of 20-25°C, the product has a shelf-life of about 1 year.
Package	5 Kg
Safety Data Sheet	Available upon request

GENERAL FEATURES

- Resistant to fluxes and most aggressive solvents (isopropyl alcohol, methyl chloride)
- Excellent mechanical properties (hardness, shearing resistance, flexibility)
- Excellent adhesion onto Sn-Pb, copper, polyester
- High definition and good filling, thanks to its thixotropic properties
- High dielectric properties
- Semi-glossy finish

PREPARATION

Before using it, the ink must be mixed well and, in case, diluted, according to printing requirements.

In case that viscosity reduction is needed, it is possible to add up to 2% **DILUENTE REATTIVO 2483-V-43**.

Oxidation or other contaminants like oil or grease can lower ink adhesion. It is therefore necessary to clean metal surface by wet mechanical brushing and to dry it thoroughly to get good ink adhesion.

TECHNICAL FEATURES

ASPECT:	semi-glossy green
SOLID CONTENT:	96-98 %
SPECIFIC GRAVITY:	1,250
FLASH POINT:	> 100°C
VISCOSITY:	12.000 – 14.000 cP (Brookfield spindle 5, speed 20 at 25°C)
FILM HARDNESS:	: > 3 H
INSULATION STRENGTH:	2x10 ¹² ohm (IPC-SM 840)
DISCHARGE TENSION:	850 V/mm (25,4 mm) (IPC-SM 840)



Electronic



SPECIAL INSTRUCTIONS

- Always test the characteristics of the product, before starting production.
- The above information is the result of previous knowledge and experience; it is neither a guarantee nor an assurance.
- Direct or prolonged ink exposure to light source UV contents should be avoided.
- Commercially available white fluorescent lamps may be used in the work area, provided they are fitted with a diffuser.

IMPORTANT NOTE

The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us to the suitability of the product for the intended purpose, does so at his own risk.

While we endeavour to ensure that all advice we give about the product is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product.

Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product.

The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.