

Wood Lane End, Hemel Hempstead, Hertfordshire HP2 4RQ. Tel: 0442 233233 Fax: 0442 69554 Telex: 82363 or 826437 KELSEY G

12,320 April, Montreal, Quebec, H1B 5N5. Tel: (514) 645-2375 Fax: (514) 645-7574

Multicore Löttechnik, GmbH, D7534 Birkenfeld, Kreuzstrasse 150. Tel: 07231-47075 Telex: 783757-LOET D. Fax: 07231-48355

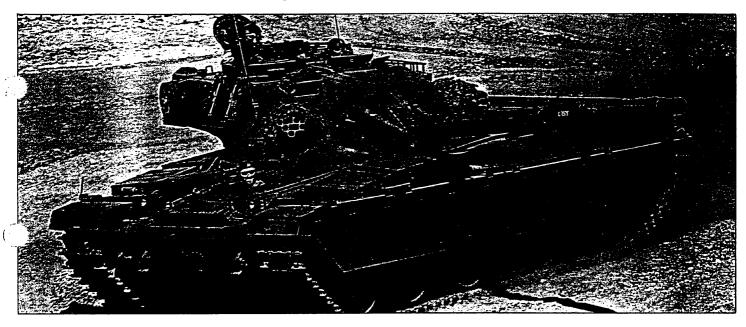
MULTICORE SOLDERS

Cantiague Rock Road, Westbury, NY 11590 Tel: (516) 334-7997 Telex: (510) 222-5185 Fax: (516) 334-7098

RM 1003, 10th Floor, Wisma Lim Foo Yong, 86, Jln. Raja Chulan, 50200 Kuala Lumpur. Tel: 03-2425443 Tlx: MEGACO MA 31060

AUSTRALIA
P.O. Box 43. Beaconsfield, NSW 2014. Tel: (02) 667-2750 Telex: AA 176434 MSAP

CONFORMAL COATING



Protection at a fraction of the price:

Xersin 2050 is a one-part Conformal Coating. Part of the Xersin product range, it is applied to printed circuit boards after soldering to protect the circuits and joints from subsequent environmental

Although its physical and chemical properties make Xersin 2050 a most efficient and convenient coating medium, it is its price advantages, compared with epoxy-based systems, that make it particularly attractive. Per litre, Xersin 2050 is less than 15% of the price of epoxy preparations, so considerable savings can be achieved.

Complete protection

Whilst the use of Xersin Flux/Preservative affords post-soldering protection against atmospheric corrosion, areas of circuit board are nevitably left exposed. The application of Xersin 2050 Conformal Coating eliminates the risks of corrosion and current leakage associated with these unprotected areas.

Xersin 2050 provides a coating with the following three main benefits:—

- 1. It is fully compatible with the residues of Xersin Flux/Preservative, which need not be removed prior to the application of Xersin 2050.
- 2. Its high humidity-resistance ensures that the underlying circuitry is protected. In addition, the coating itself will neither discolour nor crack.
- 3. Should subsequent modifications or repairs be necessary, the coating can be readily soldered through.

Ease of Application:

Xersin 2050 is supplied in a concentration suitable for immediate use. Coating required is 2 microns.

Xersin 2050 may simply be either sprayed or brushed over the entire board. Xersin 2070 Thinners are available if required.

Once coated, boards are dried either in a warm air draught or low temperature oven (60°C). Alternatively, they can be left to dry at ambient temperature, which will take about 45 minutes.

Brushes and spray equipment can be cleaned after use with PC.81 Multicore Solvent Cleaner.

Performance Characteristics:

Xersin 2050 Conformal Coating meets the requirements of Def. Standard 59-47 Part I, Issue I and BS 5917:1980, Type AR, which are regarded as meeting similar performance requirements as to MIL-I-46058C.

Xersin 2050 cures by solvent evaporation and the resulting coating is thermoplastic with a softening point of 100°C apprx. Upper temperature limit is 125°C.

When to Use:

The ease of application, elimination of removal of flux residues and the economy of Xersin 2050 make it the ideal conformal coating.

Xersin 2050 is also much safer to use than either epoxy or polyurethane systems.

The curing agents present in epoxy resin coatings may be clinically dangerous and special precautions should be taken in handling them. Polyurethane coatings are liable to decompose on heating, such as when replacing components. This decomposition may result in the liberation of toxic isocyanates.

NEITHER OF THESE HAZARDS ARE PRESENT WHEN USING XERSIN 2050.

Properties and Relevant Specifications:

Specific Gravity at 20°C (68°F):
0.850
Solids Content W/W:
20%
Flash Point:
5°C (40°F)
Viscosity at 20°C (68°F):
10 cps
Electric strength:
26 kV/mm

(Method 201, BS 2782)

Typical Test Results:

Typical resurresu	Requirement	Values measured		
Test	BS 5917:1980	with Xersin 2050	Result	
Insulation resistance:				
after coating		2.15 x 10° Megohm		
after damp heat	10⁴ Megohm	3.4 x 10 ⁵ Megohm	Pass	(
Q-factor				`
% change due to coating				
1 MHz	max. 9	2.6	Pass	
50 MHz	max. 19	2.1	Pass	
100 MHz	max. 9	6.5	Pass	
% change due to water immersion				
1 MHz	max. 9	2.7	Pass	
50 MHz	max. 5	2.1	Pass	Ę
100 MHz	max. 7	2.4	Pass	7
Repairability	Removable without damage			
repunctionity	to conductors		Pass	
Flammability	Burning time greater			
	than 10 seconds Burning limited to within 25 mins Shall-not drip		Pass	
Tackiness	No pick-up of paper fibres		Pass	

Packaging:

Supplied in 1 litre and 5 litre containers and 200 litre drums. (In U.S.A. 1 quart, 1 gallon, $2^{1/2}$ gallon and 55 gallon drums).

Health & Safety:

Avoid skin contact. Inhalation of the solvent vapour and ingestion of the liquid may result in headache and dizziness. If the eyes are affected they should be washed thoroughly with water and medical attention should be obtained.

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