

Hi-performance No-clean Solder Paste

SE48-M955 & SS48-M955

■ Feature

- 1) Employment of rigidly classified 20~45 micron solder powder ensures outstanding continual printability with fine pitch (0.5mm/20mil) and even super fine pitch (0.4mm/16mil) applications and long stencil idle time.
- 2) Carefully selected rosins and activators ensure powerful solder wetting.
- 3) Extremely long stencil idle time and tack time, offering wide process window.
- 4) Low color flux residue offers superior cosmetic appearance.
- 5) Conforms to Bellcore tests (Copper mirror, Halides, Surface insulation resistance, Electromigration) GR-78-CORE, Issue 1.

■ Specifications

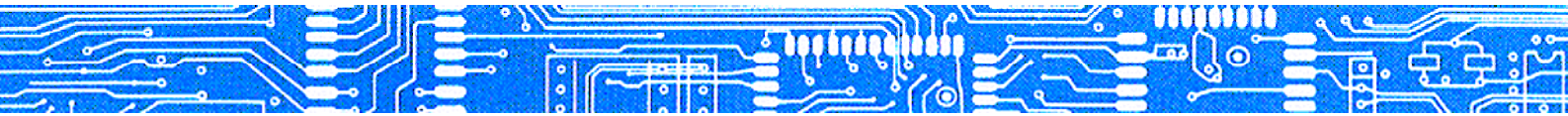
Application		Printing - Stencil	
Products		SE48-M955 (SS48-M955)	
Alloy	Composition (%)	Sn63, Pb37 (Sn62, Pb36,Ag2)	
	Shape	Spherical	
	Particle size (μm)	20 - 45	
Flux	Halide content (%)	0.0	
	Surface insulation resistance * ¹	Initial value (Ω)	$> 1 \times 10^{12}$
		After humidification (Ω)	$> 1 \times 10^{11}$
	Aqueous solution resistivity* ² (Ω cm)		$> 5 \times 10^4$
Flux type		ROL0	
Product	Flux content (%)	10	
	Viscosity* ³ (Ps)	2,000	
	Copper plate corrosion* ⁴	Passed	
	Solder spread factor (%)	90	
	Tack time	> 36 hours	
	Shelf life (below 10°C)	6 months	

1. SIR40°C×90%RH×96Hr

2. Aqueous solution resistivity.....In accordance with MIL specifications.

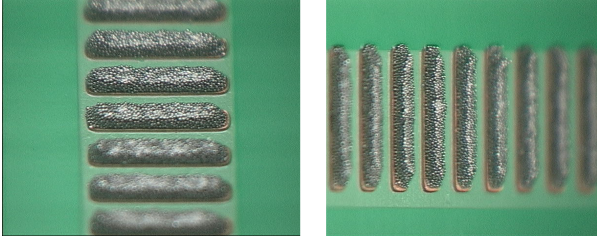
3. Viscosity.....Malcom spiral type viscometer, PCU-205 at 25°C 10rpm

4. Copper plate corrosion.....In accordance with JIS.



■ Printability – SE48-M955

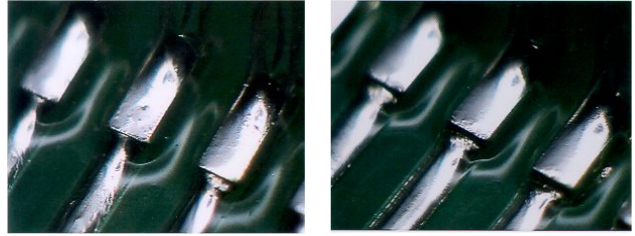
(Continual printing at 50mm/sec. stencil 150 μm laser cut)



0.4mm pitch (30th print)

■ Solder wetting

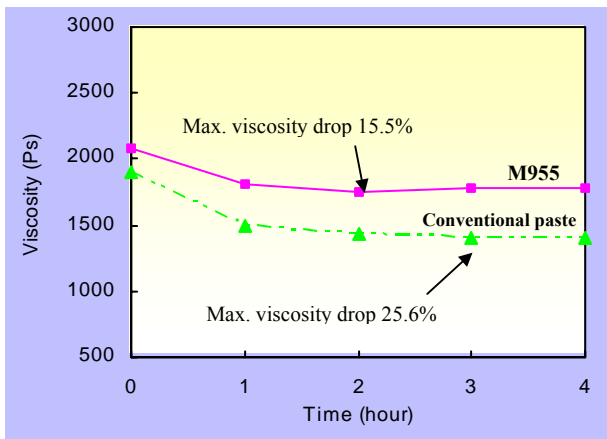
(QFP 0.65mm pitch, Fe/Ni base alloy with Sn/Pb plated)



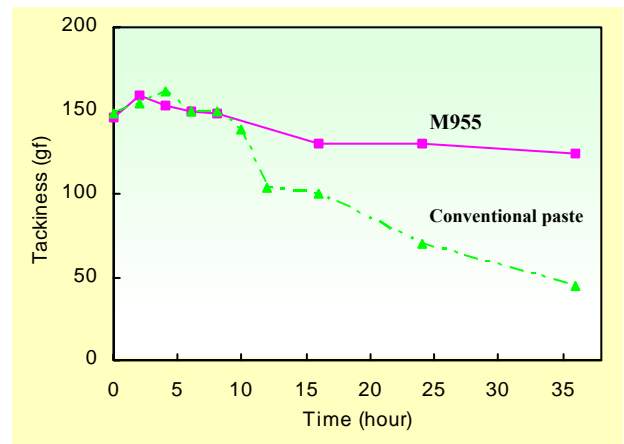
SE48-M955

Conventional solder paste

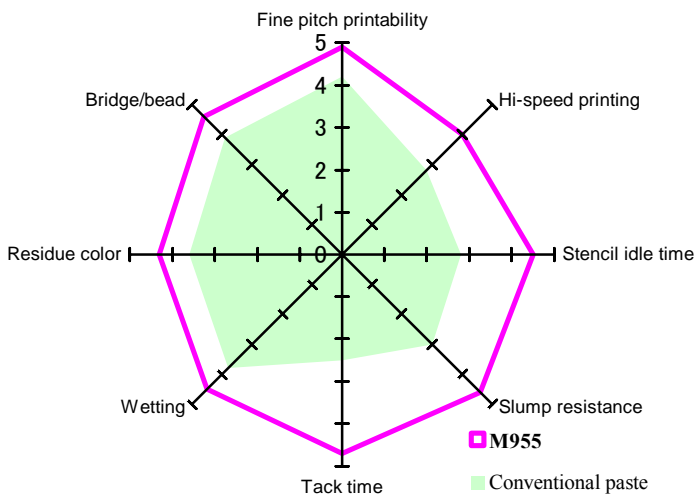
■ Viscosity variation in continual print



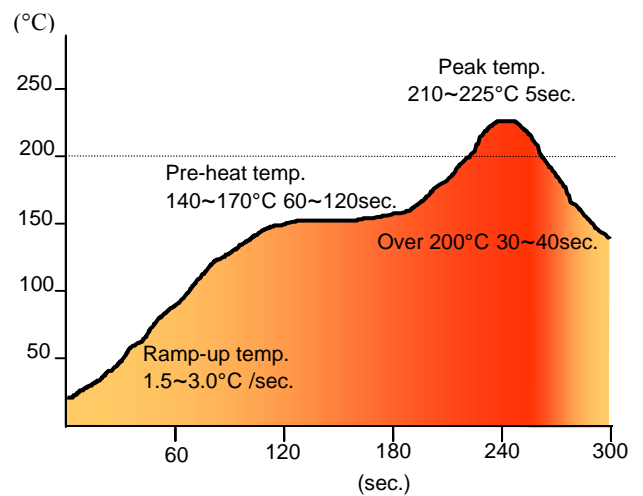
■ Tackiness



■ Features comparison (0: Bad → 5: Good)



■ Recommended reflow profile



KOKI COMPANY LIMITED

32-1, Senju Asahi-cho, Adachi-ku, Tokyo 120-0026

Tel : (03) 5244-1521 Fax : (03) 5244-1527 www.ko-ki.co.jp