

Silver Paste AG 1100 PD

Application: silver paste AG 1100 PD is a lead free silver paste for general decoration purpose. It is especially designed to be brushed^{#1} after firing producing a shiny surface. AG 1100 PD is designed with Chimet SpA[®] fine silver powder: fired layer shows high density and adhesion on different substrates as for example, but it is not limited to, glass and metals. Organic vehicle allow satisfactory residence time on screen combined with good air drying properties. Depending on wet thickness a certain sag-resistance is guarantee. Good levelling complete the printing performances of AG 1100 PD.

^{#1} Chimet SpA[®] recommend to brush under water with a metal sponge

BENEFITS

- Good firing window^{#2}
- Excellent printability
- High adhesion
- Shiny film after brushing
- Solderable paste
- Heavy metal free

^{#2} AG 1100 PD can be fired @500°÷600°C for several minutes. Each customer has to define internally the best thermic profile depending on process equipments and final properties

GENERAL PROCESS CONDITIONS

Printing: typical industrial parameters:
230 – 300 mesh stainless steel screen or
71 – 110 wires polyester screen, emulsion

4 – 15µm. Snap off 1.2 – 1.8 mm, speed
160 – 250 mm/s, force 60 – 80 N.

Drying & Firing: compatible with standard industrial processes.

Table 1. TYPICAL PROPERTIES

Viscosity^{#3}

50 – 60Pa*s@10rpm

Silver content

80.0%±0.5%

^{#3} Brookfield DV-II, chamber 6, spindle 14,
25.0°C±0.5°C

SHELF LIFE

8 months when properly stored in tightly closed containers at room temperature (5°÷25°C).

RECOMMENDATION

Before use please stir paste gently (to avoid air entrapment) with a spatula for homogenisation (30'' to 1'). Best conditions are achieved when a jar rolling is adopted. Keep paste at room temperature (~25°C) for 12h before opening container. AG 1100 PD is a *ready to use* paste and thinning is not recommended. Use thinner 0330IT to replace solvent losses.

DISCLAIMER

The data published in this document come from experiments carried out in our laboratories and performed in conditions believed to be the most commonly accepted by the industry. It is the end-user's responsibility to check whether this product can be efficiently used in his

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