

Product Description

Dycotec DM-OC-6020S is a thermally cured paste for screen printing for general electronic application use. DM-OC-6020S contains functionalised filler material to enhance its hardness and water barrier layer properties. The high abrasion resistance offers an effective protective overcoat layer with excellent adhesion on a range of surfaces.

Product Benefits

- Formulated for screen printing
- Thermally cured
- High abrasion resistance
- Water barrier
- Excellent adhesion

Paste Preparation

DM-OC-6020S is a 2-part paste system. It requires mixing of the Part B, DM-OC-6020B and the Part A, DM-OC-6020A in the correct ratios to form DM-OC-6020S. The contents of one container of the Part B, DM-OC-6020B system must be added completely to a pot of DM-OC-6020A. The combined pastes should then be mixed slowly. Avoid rapid stirring to prevent air entrapment during the stirring process. Once the product is activated, the material should be used within 24 hours. After 24 hours, quality cannot be guaranteed. Once the paste has been removed from the container for printing, this may introduce contamination. Please do not replace the paste in the container.

Properties of the Uncured Paste

Test	Properties
Viscosity after mixing (Pa.s) <i>((Lamy, cone and plate 50s⁻¹, 20°C)</i>	10 - 15

Paste Processing Conditions

To achieve a print thickness of ~12 µm, typical parameters are provided in the table below.

Parameter	Typical Properties
Substrate	Glass, ITO-Glass, Plastics, FR4
Screen	325 SS, 13 µm emulsion
Print gap	0.75 mm
Flood speed	30 mm/s
Print speed	45 mm/s
Squeegee type	80 durometer (Red)
Squeegee pressure	4 Kg
Squeegee holding angle	45°
Curing temperature	140°C
Curing time	20-60 mins

Properties of the Cured Paste

Test	Properties
Adhesion	5B
Hardness	3H

Clean-Up

Equipment can be cleaned using alcohols such as iso-propanol.

Storage and Shelf-life

Store at room temperature (10-25°C) with lids tightly sealed. The paste shelf-life for an unopened container is 6 months from date of shipment. Dycotec Materials cannot assume responsibility for a paste that has not been stored in appropriate conditions or where the pastes have been contaminated following use.

Safety and Handling

For safe use of this product, please review relevant material safety and datasheet (MSDS).

For more information, please contact:

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All information reported in the datasheet is for experimental work undertaken in our laboratories and illustrates typical values only. Processing conditions may vary depending on customers' experience and their application requirements and manufacturing process equipment set-up.

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