Preliminary Data Sheet

**THICK FILM MATERIALS**

**Product Type:** Polymer Thick Film

**Product Name:** SM2000

**Solder Mask**

**Description**
SM2000 is a white screen printable, single component, and fast curing modified silicone coating used for solder mask application. This white cover coat, when properly cured, yields a chemically inert film which will not react with circuit components. It is compatible with Celcion® dielectrics and silver conductors.

**Key Benefits**
- REACH¹ and ROHS² compliant
- Screen printable
- Excellent resistance to SAC305 solder at 250 °C
- Excellent solvent resistance
- Chemically inert
- Compatible with Celcion® dielectrics and silver conductors

**Recommended Processing Guidelines**

**Printing**
250 mesh stainless steel screen
0.5 mil emulsion

**Curing**
60 minutes at 200 °C

**Cured Thickness**
15 – 30 µm

**Thinner**
RV-252

**Warranty**
To be determined

**Storage**
Store in a dry location at 5 – 25 °C.
**DO NOT REFRIGERATE.**
Spatulate well before using, as settling may occur during storage

**Handling and Precautions**
Use in a well-ventilated area
In general, avoid contact with skin.
Wash with soap and water.

**Typical Properties**

**Viscosity**
30 – 120 Kcps, Brookfield HBT
SC4 – 14 spindle and 6R utility cup at 10 rpm, 25 °C

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¹ REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals
² ROHS: Restriction of Hazardous Substances
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CELCION

Solder Mask

Legend:

1) REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (“REACH”) by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances (“RoHS”) and its subsequent amendments (including the exceptions related to Pb)

* See the data sheet issue date (DD/MM/YY) as reference of validity of latest edition which is available on request

The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results, obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for particular application.

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