

Description

N-Coat 9560 is a one-part alkyd adhesive. It is used for protection and insulation of assembled circuit boards.

Features

- Excellent adhesion to FPC and PCB
- Fluoresces under UV light
- Low viscosity and good flowability
- Excellent flexibility
- Excellent electrical properties
- Excellent resistance to environment
- Easy to apply via an automatic/a manual process, dipping, spraying or brushing

Uncured Properties

Chemical Type	Modified Alkyd Resin
Appearance	Slightly Yellow
Solids Content [%]	37
Viscosity @ 25°C [mPa·s] Brookfield LVDV, spindle 21# @ 5rpm	75
Specific Gravity [g/cm³]	0.9
Shelf Life @ 10-28°C [months]	12

Curing Condition

Tack free @ 10-28°C [mins]	20
Full Cure	
@ 25°C [days]	7
@ 85°C [hrs]	24
Recommend Coating Thickness [mils]	1-3

Cured Properties

Adhesion ASTM D3359	3B
Flexibility [mm] ASTM D522-93a	≤1

Hardness ASTM D3363	≥HB
Flammability UL-94	V1
Surface Resistivity [ohm-cm] ASTM D257	>1.0x10 ¹⁴
Volume Resistivity [ohm-cm] ASTM D257	>1.0x10 ¹⁴
Dielectric Strength [kV/mil] ASTM D149	>2.0

Solvent Resistance

Isopropanol 75% isopropanol + 25% water	Passed
Acetic acid 5% acetic acid + 95% water	Passed
Sodium hydroxide solution 10% NaOH + 90% water	Passed
Solvent oil 120#	Passed

Based on IPC-SM-840C, 3.3.11

Directions for Use

1. Surface Treatment

Surfaces to be bonded should be free of dust, oil, grease or any other contaminants in order to achieve a reproducible bond. For slightly contaminated surfaces, it is sufficient to wipe with isopropanol or ethanol. Substrates with a low surface energy (e.g. polyethylene, polypropylene, Teflon) need to be pre-treated physically (e.g. atmospheric plasma or corona) in order to achieve sufficient adhesion.

2. Application

Products are supplied ready for use. Depending on package type, they can be sprayed, dipped or brushed manually/automatically. Controlling the film thickness in

the process of spraying is important, and recommended coating thickness is 1-3 mils.

Please consult our application engineer for more detailed information on application.

3. Suggested working temperature range is -40 to 130°C.

Storage

Maximum shelf life may be obtained when product is stored in a cool, dry location at a temperature between **10°C to 28°C**.

Allow container to reach room temperature before use. It is best practice to wipe away any moisture on the surface of the package.

TO PREVENT CONTAMINATION OF UNUSED PRODUCT, DO NOT RETURN ANY PRODUCT TO ITS ORIGINAL CONTAINER.

Materials Handling

This product is slight irritant to eye and skin. In case of eye contact, flush with water for fifteen minutes. Wash with plenty of soap and water after skin contact. If feel uncomfortable, discontinue use and consult a physician.

Refer to the Material Safety Data Sheet (MSDS) for this product.

Disclaimer

The information provided here including the recommendations for use and application of the product is based on internal laboratory test conditions and should only be used as a reference. CollTech does not assume responsibility for the test or performance results obtained by the user. It is the responsibility of the user to perform their own evaluations to confirm whether this product is suitable for their application.