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Product
Bulletin

600-01

MICROSORB 330
SURFACE WAVE COATING, EPOXY

GENERAL DESCRIPTION

MICROSORB 330 is an epoxy based coating designed to reduce radar cross section on objects and to attenuate surface currents on metal substrates. Being a liquid version of the elastomeric absorbers, **MICROSORB 300** can be painted on complex shapes where it is difficult to place flat absorber sheets.

MICROSORB 330 can be applied to selected parts of antennas to modify or enhance patterns and reduce side lobes.

MICROSORB 330 can be used in transmission line systems as an attenuator. Due to solvent being used to reduce viscosity, the coating thickness applied is nominally between 0.1– 0.3 mm/coat, and can be built up with multiple coats with curing between each coating steps. Performance depends on wavelength as well as on thickness across the surface. X-Band applications would require ~ 0.030" coating.

MICROSORB 330 is available in a room temperature version, **MICROSORB 330**. It offers a more rapid curing cycle, 1 hour at 77°F (25°C) or less with the addition of heat. The designation is **MICROSORB 330-RT**. The cured properties of this material are essentially the same as standard **MICROSORB 330**. **MICROSORB 330-RT** has a different part B curing agent, which will begin reacting within 30 minutes of mixing, at room temperature, and will fully cure within 1 hour.

SPECIFICATIONS

Specific Gravity	3.5
Hardness, Shore D	80
Dielectric Strength, kv/mm	>4
Volume Resistivity, ohm-cm	>10 ¹⁴
Service Temperature, °F (°C)	-40 to 300 (150)

SIZES

MICROSORB 330 is sold as a two component kits with Part A is the magnetically filled epoxy resin, and Part B is the curing agent.

MICROSORB 330 is sold in the following kits:

Pint	3 pound (1.4 kg)
Quart	6 pound (2.7 kg)
Gallon	25 pound (11.3 kg)

Pre-measured Kits are available, upon request.

Warranty: This information is, to the best of Microsorb Technologies knowledge, accurate as of the date indicated. This information relates only to the specific materials designated herein and is not intended for the application or use of the materials with any other materials or in any process. The information is intended as a general guide only and does not constitute a warranty or representation whatsoever and MICROSORB TECHNOLOGIES HEREBY DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES ARISING FROM THE USER'S RELIANCE ON OR USE OF THIS INFORMATION.
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APPLICATION INSTRUCTIONS for BRUSH ON ELEVATED TEMPERATURE CURE

1. Thoroughly mix the contents of the Part A container as settling may have occurred.
2. Part B requires no mixing.
3. Mix ratio:
By weight, 100 parts of Part A to 6 parts of Part B.
4. Brush on a thickness Add recommended thinning agents as required. Continue to build-up thickness as needed by applying additional coats after the prior coat has at least partially cured.
5. Allow 24 hours at room temperature for partial cure. Apply second coat, if needed.
6. Allow 24 hours for each coat. Final cure is at 90°C for at least 3 hours.

APPLICATION INSTRUCTIONS for SPRAYING ELEVATED TEMPERATURE CURE

1. Thoroughly mix the contents of the Part A container as settling may have occurred.
2. Part B requires no mixing.
3. Mix ratio: By weight,
100 parts of Part A to 6 parts of Part B.
4. Add lacquer thinner, to lower viscosity. A lower viscosity is needed to achieve proper spraying consistency.
5. Agitate spray can between each spray to avoid settling of filler particles. Coating should not flow or drip when spraying. Coating should be tack-free before continuing with additional coats.

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