



MICROWAVE ABSORBANT PAINT: KV-SCA-P-PU-4.6

Description:

- ❖ Two parts Polyurethane/ Epoxy based magnetically loaded microwave absorbing paint.

Physical Properties/ Features:

- ❖ High magnetic loss coating to a metallic surface to attenuate surface currents/ waves.
- ❖ Part A is a resin filled with magnetic particles and Part B is an unfilled hardener.
- ❖ It can reduce Radar cross section of complex objects having discontinuities like joints, trailing edges, sharp contour etc.
- ❖ It can be used to selected parts of antennas to reduce side lobes.
- ❖ Color of coating is dark grey.
- ❖ Density of Mix. : Approx. 4.0 of the mixed cured system. Depending on end use it can be tailored between 3.6 to 4.6 gm/cm³.
- ❖ Thin able, spray able, brush able by using special solvent KV-SCA-P-PU-T.
- ❖ Shelf life : Minimum 6 months

Attenuation Performance:

- ❖ Minimum 20 dB/Cm and 63 dB/Cm at 3.0 GHz and 10.0 GHz respectively as insertion loss.
- ❖ The attenuation performance shall be tested by S₂₁ parameter.

How to Use:

- ❖ Thoroughly mix Part A. Part B requires no mixing.
- ❖ For each 70 gm parts by weight of Part A add 1.0gm of Part B and mix it thoroughly. Add approx. 5 to 10 gm by weight solvent KV-SCA-P-PU-T. Single coating thickness can vary from 100 micron to 200 micron, less solvent give thicker single coating. To increase thickness apply additional coat when the earlier coat is partially cured.
- ❖ The system is room temperature curable in 24 hours.