CYTONIX

MicroCure EVE: UV stable, weather and chemical resistance coating

The MicroCure EVE resin consists of fluoroethylene and alkyl vinyl ether segments. The fluoro-components provide UV-light, weather and chemical resistance. EVE is an excellent ultra-weatherable coating. Applications for EVE include conformal coatings, light duty industrial coatings, and coatings for porous substrates.

Properties:

Shelf life (24 °C):	>3 years
Physical Form:	Liquid two or three parts
Color:	Clear to lightly cloudy
Odor:	Solvent odor
Density:	0.98 g/ml
Percent volatile:	60%
Flammable:	Yes

Film properties:

Pencil hardness:	4H hard
Pencil hardness:	ASTM D3363: Gouge: F
Flexibility:	ASTM D4145 Mandrel bend 2T-3T (Paint fracture)
Flexibility:	ISO 1520 Cupping test >6mm (cracking)
Impact resistance:	ASTM D2794 (Diameter=0.5”) Intrusion 0.5 kg >1.0 m
Cross cut adhesion:	ISO 2409 0-1

Formulation Instructions:

- MicroCure-EVE Part-1 is the main resin. For research samples 100 grams of MicroCure-EVE is provided.

- MicroCure-EVE Part-2 is the cross-linker. When ready to apply and cure the coating, add 24.5 grams of part-2 and stir. Work time after adding part-2 is one hour.

- MicroCure-EVE Part-3 is the hardener. If faster curing is desired add 0.65 grams of Part-3 and stir. Work time after adding part-3 is 20 minutes. The coating will take about 24 hours to fully cure and develop its mature properties.

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