

DESCRIPTION

Silicone Epoxy Hybrid Resin

KEY BENEFITS

- suitable for ultra high solids coatings (< 100 g/l VOC)
- non isocyanate curing (NISO)
- excellent color and gloss retention

SUITABILITY

waterborne	solventborne
●	●
2-pack 100%	high solids
●	●
2-pack coatings	
●	

● not suitable ● partly suitable ● suitable

TYPICAL APPLICATIONS

- Protective coatings
- Marine coatings
- Heavy duty coatings

TECHNICAL DATA

appearance	clear to hazy colored liquid (product properties are not affected by haziness)
delivery form	liquid
epoxy equivalent weight (calculated on non-volatile content)	Approx. 450 g
non-volatile content	Approx. 98 %
viscosity at 25 °C	Approx. 1500 mPas

SOLUBILITY

Water	Xylene
●	●
Dowanol MPA	Butylacetate
●	●
Methylisobutylketone (MIBK)	Cyclohexanone
●	●

● not soluble ● partly soluble ● soluble

PROCESSING INSTRUCTIONS

- Ensure that all used raw materials are free of amino-functional groups.
- In combination with alkoxy-functional resins, we do not recommend the use of alcohols or hydroxy-functional glycol ethers as solvents.
- The used raw materials should have a water content < 0.05%.
- Check the storage stability of the formulation.

CURING CONDITIONS

- SILIKOPON® EF cures at ambient temperature in combination with aminosilanes, e.g. Dynasylan® AMEO. Mixing ratio SILIKOPON® EF : Dynasylan® AMEO = 4.5 : 1.
- Suitable catalysts are e.g. different amines (TMG, DBN), titanates and zinc-organic compounds.
- The curing time is dependant on relative humidity and temperature.
- Forced drying is not recommended.

HANDLING & STORAGE

- When stored in an original unopened packaging, the product has a shelf life of 24 months from the date of manufacture.
- Contact with tin (e.g. with metal containers) will shorten the storage stability. Keep dry. Contact with moisture causes gelation.

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