

DESCRIPTION

Silicone Epoxy Hybrid Resin

KEY BENEFITS

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

SUITABILITY

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

● not suitable ● partly suitable ● suitable

TYPICAL APPLICATIONS

- Transportation coatings
- Marine coatings
- Protective 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)	Cyclohexanon
●	●

● not soluble ● partly soluble ● soluble

PROCESSING INSTRUCTIONS

- Check the storage stability of the formulation.
- Ensure that all used raw materials are free of amino-functional groups.
- The used raw materials should contain water content < 0.05%.

BAKING CONDITION

- Forced drying is not recommended.
- Suitable catalysts are e.g. tin (TIB KAT® 318), zinc, titanium, and zirconium compounds or organic acids. The curing time is dependent on relative humidity and temperature.
- SILIKOPON® EF cures at ambient temperature in combination with aminosilanes, e.g. Dynasytan® AMEO. Mixing ratio SILIKOPON® EF : Dynasytan® AMEO = 4.5 : 1.

HANDLING & STORAGE

When stored in an original unopened packaging between -10 and +40 °C, the product has a shelf life of at least 24 months from the date of manufacture. However, contact with tin (e.g. with metal containers) will shorten storage stability. Keep dry. Contact with moisture causes gelation.

MSDS & REGULATORY INFORMATION

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Resource Efficiency GmbH | Goldschmidtstraße 100, 45127 Essen, Germany | Telefon +49 201 173-2222 Telefax +49 201 173-1939 | www.coating-additives.com