

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® ED cures at ambient temperature in combination with aminosilanes, e.g. Dynasylan® AMEO. Mixing ratio SILIKOPON® ED : Dynasylan® AMEO = 4.5 : 1.
- 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.

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