

DESCRIPTION

Reactive methyl silicone resin

KEY BENEFITS

- low viscous methoxy-functional silicone resin
- curing at ambient temperature by catalysis and entering of humidity via a hydrolysis-/condensation reaction
- low smoke and odor development of the completely cured coating at temperature exposure
- SILIKOPHEN® AC 1000 is perfectly suitable for the formulation of one component hydrophobic agents and of fire protection impregnation for wood.

SUITABILITY**waterborne****solventborne****high solids**

● not suitable ● partly suitable ● suitable

TYPICAL APPLICATIONS

- heat-stable coatings for industrial facilities
- Protective coatings
- ovens, furnaces, pipelines, incinerators

TECHNICAL DATA

active matter content 100 %

appearance clear to hazy colored liquid (product properties are not affected by haziness)

delivery form liquid

viscosity at 25 °C Approx. 15 mPas

SOLUBILITY**Xylene****Dowanol MPA****Butylacetate****Cyclohexanone**

● not soluble ● partly soluble ● soluble

PROCESSING INSTRUCTIONS

- Use with metallic pigments and special formulations to obtain continuous heat-resistance of up to 650 °C.
- Surface pre-treatment: Degreasing and shot-blasting is recommended.
- 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%.

CURING CONDITIONS

- The binder cures at ambient temperature in the presence of catalysts.
- Recommended addition level for the catalyst(s), e.g. tetra-n-butyltitanate: 1-5% referred on binder (solids). The addition of the catalyst must be carried out just before filling (1-pack system) or just before application (2-pack system).
- Baking is possible after approx. 12 hours of curing at ambient temperature. Forced drying, e.g. in a convection oven, is only possible in presence of air humidity. The cross-linking proceeds via a hydrolysis / condensation reaction.

HANDLING & STORAGE

- When stored in an original unopened packaging, the product has a shelf life of 36 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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Evonik Operations GmbH | Goldschmidtstraße 100, 45127 Essen, Germany | Telefon +49 201 173-2222 Telefax +49 201 173-1939 | www.coating-additives.com