Silicone resin

SILIKOPHEN® AC 900

DESCRIPTION

Reactive methyl phenyl 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

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	Approx. 90 %
appearance	clear to hazy colored liquid (product properties are not affected by haziness)
delivery form	liquid
solvent	xylene
viscosity at 25 °C	Approx. 130 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 alcoxy-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 catalysts (e.g. Tetra-n-butyltitanate : Tetra-N-Methylguanidin = 1:1): 0.5-5% referred on binder (solids). The addition of the catalyst must be carried out 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 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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