

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 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

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