

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

SUITABILITY

| waterborne | solventborne |
|---|--------------|
| ● | ● |
| high solids | |
| ● | |
| ● not suitable ● partly suitable ● suitable | |

TYPICAL APPLICATIONS

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

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

| Water | Butylacetate |
|--|--------------|
| ● | ● |
| Methylisobutylketone (MIBK) | Xylene |
| ● | ● |
| Dowanol MPA | Cyclohexanon |
| ● | ● |
| Butanol | |
| ● | |
| ● not soluble ● partly soluble ● soluble | |

PROCESSING INSTRUCTIONS

- The used raw materials should contain water content < 0.05%.
- Surface pre-treatment: Degreasing and shot-blasting is recommended.
- Use with metallic pigments and special formulations to obtain continuous heat-resistance of up to 650 °C.

BAKING CONDITION

- 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.
- 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).
- The binder cures at ambient temperature in the presence of catalysts.

HANDLING & STORAGE

When stored in an original unopened packaging between -10 and +25°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.

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