MOS-4

Methyl Polysiloxane Resin

Special features

- low viscous methoxy-functional silicone resin
- solvent-free
- curing at ambient temperature by catalysis and entering of humidity via a hydrolysis-/condensation reaction
- very low smoke and odor development of the completely cured coating at temperature load

Technical information

- delivery form liquid
- appearance yellowish clear liquid
- active matter content 100 %
- viscosity at 25 °C approx. 5 - mPa s
- methoxy content approx. 37 wt-%

Application

- high temperature application for industrial facilities, power plants, incinerating plants, ventilators, turbines, silencers, ovens, chimneys, oven inserts, barbeques, electric and gas heaters
- anti-corrosion coatings (depending on formulation)

Processing instructions

- Use with metallic pigments and special formulations to obtain continuous heat-resistance of up to 600 °C.
- For pre-treatment of the surface, sand-blasting is recommended.
- 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.
- The addition of the catalyst TnBT must be carried out just before filling (1K system) or just before the application
- (2K system). add in the mill base a water scavenger at an amount of < 0.5%.
- Recommended addition level of the catalyst 1 - 3% calculated on binder
- The storage stability of the formulation must be checked.
- Recommended dry film thickness: 25 +/- 5 µm

Dilution

Dilution is possible with organic solvents, e.g. aromatic (xylene), esters (methoxypropyl acetate, butyl acetate) and ketones.

Baking conditions

- dust-dry at ambient temperature (23 °C) after 1 - 2 hours
- reaches full cure and full mechanical strength after 5 - 7 days

Registration status

MOS-4 respectively its ingredients are listed in the following chemical inventories: AICS, ECL, EINECS, ENCS, IECSC, NDSL, PICCS, TSCA, NZIOC, TCSI.
All intentional ingredients are listed on the TSCA inventory or comply with the TSCA Polymer Exemption criteria according 40 CFR 723.
Further information on regulatory topics can be found on the Regulatory Data Sheet.
All intentional ingredients are listed on the ECL inventory or comply with the Polymer Exemption criteria.
All intentional ingredients are listed on the PICCS inventory or comply with the Polymer Exemption criteria.

Storage stability

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.

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