

Addition-Cure Silicone Encapsulant Inhibition Guide

Avoid applying addition-cure silicone encapsulants to surfaces that contain cure-inhibiting ingredients. If bonding surface is in question, apply a test patch of the silicone encapsulant to the surface and allow it to set for the normal cure time. Inhibition is indicated by uncured residue on the test surface.

The following is a list of chemical compounds that may inhibit or poison an addition-cured silicone:

Compounds containing Sulfur

- Sulfides
- Thio compounds

Organotin Compounds

- Tin alkoxides
- Tin carboxylates
- Tin catalysts

Compounds containing Nitrogen

- Amines
- Amides
- Nitriles
- Cyanates
- Oximo, Nitroso, Hydrazo, and Azo compounds
- Chelates
 - EDTA
 - NTA

Compounds containing Phosphorous

- Phosphines
- Phosphites

Compounds containing Unsaturated Bonds

- Alkenes and Olefins
- Alkynes
- Acrylates

These compounds can commonly be found in the following materials:

- Latex, vinyl, or neoprene gloves
- Mold release, including those in injection molding plastics
- Natural rubber, rubber bands
- EPDM
- Rubber o-rings, including some used in meter/mix/dispense (MMD) equipment*
- RTV silicones containing organo-tin catalysts
- Tin-cured urethanes or amine-accelerated urethanes
- PVC tapes and masking tapes
- Modelling clay containing sulfur
- Polyesters
- Melamine
- Plastics containing residual plasticizers

** Ask the MMD manufacturer to perform a compatibility test on non-metallic components from their standard re-work kit for both the pumps and the metering unit. Test for cure inhibition by dispensing material onto the components that the product may come into contact with.*

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