

Description (Cont.) Upon heat curing, the polymers crosslink at the sites of hydrogen atoms to form a resinous release coating.

How To Use XIAMETER MHX-1107 Fluid is usually applied from dilute solution. Solutions are prepared by diluting XIAMETER MHX-1107 Fluid with hydrocarbon solvents, acetone or methyl ethyl ketone (see Product Safety Information), and stirring the mixture gently until uniform. The extent of dilution will depend on the surface to be treated and surface properties desired.

Curing

Coatings of XIAMETER MHX-1107 Fluid are usually heat cured to develop release properties or water repellency. Curing temperatures range from 120°C to 175°C. Curing times are much shorter at higher curing temperatures.

Catalysts are often used to accelerate cure. Four suitable catalysts in order of increasing activity include zinc octoate (22% zinc), iron octoate (6% iron), dibutyl tin dilaurate, and tin octoates (28% tin). A typical catalyst concentration is one part catalyst, as supplied, to 10 parts of XIAMETER MHX-1107 Fluid. Concentrations of the more active catalyst must not be increased to the point that bath life becomes too short.

The actual curing time will vary with the surface being treated as well as with the catalyst. In a typical application, uncatalyzed films of XIAMETER MHX-1107 Fluid can be cured in 3 to 4 hours at 120°C or in 10 to 15 minutes at 150°C.

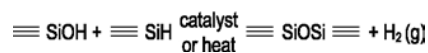
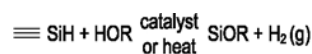
Films applied from dilute solutions catalyzed with one part iron octoate (6% iron) to 10 parts of XIAMETER MHX-1107 Fluid will cure in 3 minutes at 120°C, 1.5 minutes at 150°C, or 50 seconds at 175°C.

Handling
Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

XIAMETER MHX-1107 Fluid and systems containing XIAMETER MHX-1107 Fluid may evolve hydrogen gas under certain conditions.

Reactions Leading To The Formation Of Hydrogen Gas Include:



Where R= alkyl, aryl, H, metal. Catalysts: Bases, acids, heavy metal salts, polar ionic salts, certain transition metal salts. When using solvents avoid heat, sparks and open flame. Always provide adequate ventilation. Obtain and follow handling precautions from the solvent supplier.

Usable Life And Storage

Product should be stored at or below 60°C (140°F) in original, unopened containers.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health And Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

<http://www.xiameter.com>

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

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