



## Technical Data Sheet

### XIAMETER™ MEM-0347G Emulsion

Aqueous emulsion of polydimethylsiloxane

#### Features & Benefits

- Concentrated emulsion of hydroxyl endblocked PDMS fluid
- Highly surface active to provide good release, lubricity, water repellency and gloss
- Reactive chemical sites on PDMS can be reacted with various substrates
- Crosslinking agents and catalysts can be used to achieve a more resinous coating
- Contains rust inhibitor to resist rusting in the concentrated form
- Alkyl phenol ethoxylate (APEO) free
- BTX free

#### Applications

- Mould release agent in a wide variety of industrial and specialty chemical applications, applied in low concentration by spraying, dipping, brushing or wiping mould surfaces
- Release agent between coated finished leather to minimize adhesion during storage
- As an ingredient in automotive appearance formulations that can provide shine and durability

#### Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

CTM <sup>1</sup>	Property	Unit	Result
0176	Appearance		Pass
0862	Non-volatile content	%	61.00–65.00
0007	pH		6–8
0957	Particle size	µm	0.00–1.50
	Emulsifier type		Non-ionic
	Diluent		Water

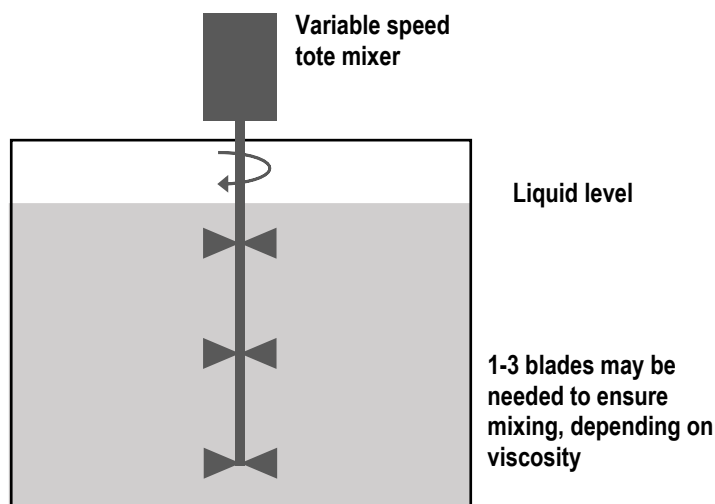
1. CTM: Corporate Test Method, copies of CTM's are available on request.

#### How to Use

Diluted with water and applied by spraying or dipping, XIAMETER™ MEM-0347G Emulsion leaves a thin but highly effective silicone release film on mould surfaces. In most cases, this heat-stable film does not carbonize at temperatures which quickly destroy organic mould release agents: does not cause build-up on the moulds nor does it discolor rubber or plastic parts.

## Mix Before Use

During storage, some product stratification may be observed; therefore, it is recommended that XIAMETER™ MEM-0347G Emulsion be mixed prior to use or down-packaging to ensure homogeneity. Small bottles can be hand mixed or mixed on a mixing wheel. Larger packaging, such as pails or drums, can be rolled. Tote packages can be mixed with the use of a tote mixer. To reduce the risk of microbial and physical contamination, minimize the duration that containers are open, and use only clean and sanitized equipment and tools. Further, to avoid the risk of over-shearing during tote mixing, pitched blades are recommended rather than cowles-style or other higher shear blades. Variable speed mixers are recommended, as speed may need to be adjusted to ensure mixing efficiency depending on product viscosity. Finally, a multiple blade assembly be necessary to avoid stagnant zones and ensure appropriate mixing occurs throughout the tote.



**Figure 1.** Example tote mixing configuration

## 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 DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

## Usable Life and Storage

XIAMETER™ MEM-0347G Emulsion will freeze but can be reconstituted by thawing. To prevent freezing, store above 5°C.

When stored at or below 5–35°C in the original unopened containers, this product has a usable life of 12 months from the date of production.

## 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, [dow.com](http://dow.com) or consult your local Dow representative.

## **Disposal Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

## **Product Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

## **Customer Notice**

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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