

# XIAMETER<sup>®</sup> MEM-0346 Emulsion

## Aqueous emulsion of polydimethylsiloxane

### FEATURES

- Ready to use non ionic emulsion
- Provides gloss and water repellency
- Good wetting and slip characteristics
- General purpose release agent including web release
- Imparts softening and lubrication to textiles
- Does not contain alkylphenoethoxylates (APEO)
- Complies with Detergent Regulation (EC) No. 648/2004
- Good emulsion stability up to 50°C
- Good dilution stability up to 2% in water
- Good freeze-thaw stability (5 cycles)

### APPLICATION

XIAMETER MEM-0346 Emulsion has been specially formulated for use as polish ingredient and release agent/lubricant either “as received” or “pre-diluted” with water. Its formulation, stability and efficiency can lead to a variety of applications. These include:

- As ingredient in polishes, XIAMETER MEM-0346 Emulsion is used to provide good gloss with minimum smear in both car and furniture polish formulations
- Mould release of:
  - Rubber or plastic parts (stoppers, screw tops, bungs, etc.)
- Lubrication of:
  - Extruded rubber parts; conveyor belts
- Textile lubricant:
  - Yarn manufacture
  - Sewing thread lubrication
  - Hosiery manufacture
  - Sewing needle lubrication
  - Glass fabric exhaust filters

### TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local XIAMETER sales representative prior to writing specifications on this product

Property	CTM*	Unit	Value
Appearance	0176		White liquid
Non volatile content	0862	%w/w	62-66
Specific Gravity at 25°C	0001		1.0
Ph	0007		7.0 – 9.5
Emulsifier type			Nonionic
Diluent			Water

CTM\*: Corporate Test Method, copies of CTM's are available upon request.

### DESCRIPTION

XIAMETER MEM-0346 Emulsion is a 60% actives non-ionic emulsion formulated with a polydimethylsiloxane. Because of its non-ionic nature, it can be used in a variety of systems, such as nonionic, anionic, cationic surfactant or polymer systems without forming a complex. Extensive testing has shown that XIAMETER MEM-0346 Emulsion performs comparably to its predecessor and offers better dilution stability at 20% solids

### HOW TO USE

XIAMETER MEM-0346 Emulsion can be used as received or in a diluted form.

For use as release/lubricant XIAMETER MEM-0346 Emulsion may be applied as received in a diluted form by the conventional methods of spraying, dipping, wiping or brushing. Low hardness water should be used for dilution. A typical dilution is XIAMETER MEM-0346 Emulsion (1 part w/w) to water (20 parts w/w)

but the user should determine the best concentration and application method on a small scale before production.

For use as fabric finish agent XIAMETER MEM-0346 Emulsion can be applied to fabric by padding. The amount of emulsion required will depend on the fabric constructions and type of fabric used (natural, synthetic). Generally, between 6g/1 and 25g/1 bath concentration is recommended.

#### Procedure for padding

1. Scour goods in a non-ionic detergent and rinse thoroughly. Follow with an acid rinse using 2g/1 of 80% acetic acid for 5 minutes. This will neutralize any alkali residues from previous processes that may cause pad bath instability and lead to oil spots on fabrics or gel on the rollers.
2. If crease resist resins or fillers are used, dilute in the mixing tank in accordance with the manufacturers' instructions. If hot, cool to below 30°C before adding the silicone emulsion.
3. Pre-dilute the required amount of XIAMETER MEM-0346 Emulsion with an approximately equal weight of cold water and add to the mixing tank.
4. If crease resist resin catalyst is used, pre-dilute with an equal weight of water and add to the mixing tank.
5. Top up to final volume with cold water.

#### Precautions during use

- Start with clean mixing tank, delivery lines, pad box and rolls.
- Dilute the emulsion with cold water only.
- Do not use a high shear stirrer when making finishing liquor.

**ATTENTION:** Sample formulations are provided for illustrative purposes only. XIAMETER does not warrant their merchantability, fitness for use, performance, efficacy, safety or freedom from patent infringement.

They are not commercial formulations and have not been subjected to extensive testing. It is your responsibility to thoroughly test any formulation before use.

#### PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE XIAMETER WEBSITE AT [WWW.XIAMETER.COM](http://WWW.XIAMETER.COM).

#### USABLE LIFE AND STORAGE

XIAMETER MEM-0346 Emulsion will freeze so adequate precautions should be taken. In case of freezing, thaw at room temperature before use to reconstitute. To prevent freezing, store above 5°C.

When stored at or below 35°C in the original unopened containers, this product has a usable life of 18 months from the date of production.

#### LIMITATIONS

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

#### LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that *Dow Corning*® and XIAMETER® products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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