

## SM 2112 NPF Emulsion

### Product Description

SM 2112 is a one-part reactive NonylPhenol Free (NPF) emulsion of a silanol-terminated dimethyl fluid.

### Key Features and Typical Benefits

- Good lubricity
- Easy release
- High-temperature stability of silicone fluid
- Low volatility of silicone fluid
- Water dispersible

### Typical Physical Properties

Appearance	White liquid
Emulsifier Type	Cationic
Base Oil	Silanol
Silicone Content, %	35
Density, g/cm <sup>3</sup>	0.984
Total Solids, %*	35-41
Diluent	Water
Emulsifier Type	Cationic

\*: % of nonvolatile material in the emulsion

Typical properties are average data and are not to be used as or to develop specifications.

### Potential Applications

#### CHEMICAL SPECIALITIES

- Cured coating on glass containers

#### TEXTILES

- Softeners & modifiers

#### WATER REPELLANT

- Particle treatment
- Perlite & vermiculite coatings

#### MOLD RELEASE

- Polyurethane
- Rubber

### General Considerations for Use

Normally used at a concentration of 0.2 to 2.5% silicone. A 2.0% silicone concentration is an excellent starting point for evaluating these products in new applications.

### CURE PROPERTIES

Upon evaporation the product will cure to an elastomeric film.

## **HARD WATER DILUTION**

Silicone emulsions are generally stable in hard water. However, should the water supply be of 200 ppm hardness or higher, softened water or boiler condensate is recommended as a diluent. Dilution of the emulsion with water may result in the need for additional bacteriostat/fungistat to counteract possible microbial activity. It is recommended that each user evaluate the diluted emulsion before putting it into use. Depending on the specific applications and dilution level, it may be necessary to use additional bacteriostat/fungistat in the diluted product.

Silicone emulsions are shipped with sufficient biocide for preservation. Shipments of emulsions with sufficient biocide for all dilution levels in all applications are not feasible. Therefore, it is recommended that each user evaluate whether it is necessary to add additional biocide to diluted products.

## **REACTIVE FLUID EMULSIONS**

The reactive silicone emulsions may not be compatible with certain materials. They are deactivated by acidic materials and may cause gelation of materials containing hydroxy (-OH) groups. Other materials such as anionics, lower alcohols, salts, etc., may break the silicone emulsion. It is recommended that any mixture of reactive emulsions with other materials be thoroughly checked before it is put into factory production.

## **Patent Status**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

## **Product Safety, Handling and Storage**

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

## **Limitations**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

## Customer Service Centers

For additional information, please contact our Customer Service Team

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