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SILICONE PRODUCTS -EMULSIONS AND FLUIDS-

SILICONE EMULSIONS SEM SERIES*

PRODUCT DESCRIPTION:

SEM Series silicone emulsions are carefully formulated emulsions of dimethyl, alkyl modified dimethyl or a reactive silicone fluid and water. They are primarily designed for use in applications for rubber and plastic release agents, furniture polish, cosmetic, textile finishing and other specialty formulations. Each emulsion is based upon a silicone fluid of different viscosity ranging from 100 to >100,000 centistokes. Most SEM silicone emulsions have a specific gravity of approximately 1.00, a freeze/thaw stability of 4 cycles minimum and are white in color, except SEM401, which is yellow-tinted white. SEM silicone emulsions contain a corrosion inhibitor and an anti-fungicide.

TYPICAL PROPERTIES:

SEM GRADE	BASE SILICONE	SILICONE PERCENT	BASE FLUID VISCOSITY ¹	pH	EMULSIFIERS
203	dimethyl	50	100	7.0	nonionic
204 ²	dimethyl	35	350	7.0	nonionic
205	dimethyl	50	350	7.0	nonionic
206	dimethyl	60	350	7.0	nonionic
208	dimethyl	50	1,000	7.0	nonionic
209	dimethyl	50	10,000	7.0-9.0	nonionic
211	dimethyl	35	>100,000	7.0-9.0	nonionic
237	dimethyl	50	2500 Max	7.0-9.0	nonionic
269	dimethyl	60	1,000	7.0	nonionic
401 ³	alkyl	50	1,750	7.0	nonionic

¹original silicone fluid viscosity in centistokes; ²food grade available; ³paintable; water repellent for particulate matter.

APPLICATIONS:

In mold release application, SEM Silicone Emulsions are normally diluted with water to 0.5% to 2.5% active silicone to be sprayed, dipped or brushed on a mold. However, in a polish or specialty product formulation, the emulsions are normally used in their concentrated form. In most release applications a low-pressure spray gives the best results. Depending on the material being released, one application per cycle or one application per multiple cycles may be needed.

STORAGE AND SHELF LIFE:

SEM silicone emulsion show excellent stability if stored in a cool area (40 - 80°F) in tightly closed containers. Freezing should be avoided and storing the emulsion at temperatures above 115°F will cause it to separate. SEM237 contains water and should be protected from freezing.

* SEM Silicone Emulsions are products produced by Silchem

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