



CoatOSil\* 1220 Surfactant

**Product Description**

CoatOSil 1220 surfactant is a non-fluorine based organomodified siloxane surfactant with the unique superwetting properties in waterborne coatings for spray applications, high-speed roll applications and hard-to-wet surfaces. It can also improve flow and leveling properties, while remaining stable in aqueous formulations having pH 6-11. CoatOSil 1220 surfactant solutions typically provide spread areas more than 100 times greater than the corresponding volume drop of pure water, and 25 times greater than conventional surfactants. CoatOSil 1220 surfactant is 100% active, compatible with a wide variety of waterborne, solventborne and radiation-curable resin systems and is not expected to interfere with recoatability.

**Potential Applications**

CoatOSil 1220 surfactant may be considered for use in a broad range of coating and ink formulations where pH can be controlled between 6 and 11. CoatOSil 1220 surfactant can provide surface tension reduction down to 23.5 mN/m at use level up to 1% by weight. Typical recommended starting levels are 0.2-0.5%. In testing, CoatOSil 1220 coating additive provided the greatest benefit in waterborne formulations to be applied to hard-to-wet substrate. Possible applications for coatings containing CoatOSil 1220 surfactant include but are not limited to:

- Coatings for plastic films and plastic component
- Wood coating
- Glass coating
- Coatings applied to contaminated (oily) metal surfaces
- Spray or high-speed roll applied coatings

**Typical Physical Properties of CoatOSil 1220 Surfactant**

	Unit	Typical Property
Appearance		Straw-colored/slightly yellow liquid
Viscosity @ 25°C	cSt	20
Surface Tension (0.1%)	mN/m	23.5
Pour Point	°C	2
Flash Point, PMCC	°C (°F)	116 (241)
Specific Gravity @ 25°C		1.007
Solubility		
Water		Dispersible
Methanol		Soluble
Isopropanol		Soluble
Mineral Oil		Dispersible

**Patent Status**

Technical subject matter in this publication is described and protected by one or more pending US patent applications and foreign counterparts.

**Product Safety, Handling and Storage**

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials 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.



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