



CoatOSil[™] DRI Waterborne Silicone Resin

Description

CoatOSil DRI waterborne silicone resin can help reduce water uptake and improve UV resistance in organic waterborne coating compositions. Its chemical structure enables CoatOSil DRI waterborne silicone resin to overcome the difficulties of combining silicone materials with organic waterborne resins.

CoatOSil DRI waterborne silicone resin has been shown to improve hydrophobicity and elongation properties when used as a co-binder with acrylic latexes, resulting in more flexible coatings and sealants. CoatOSil DRI waterborne silicone resin can also be considered as a sole binder when maximum thermal and UV stability is a priority. When applied alone, CoatOSil DRI waterborne silicone resin cures at room temperature to form an elastomeric film.

Performance Properties (Key Features/Typical Benefits)

- Enhanced water, UV, and mar resistance.
- Formation of a more flexible coating as a co-binder with acrylic latex, without detrimental effect to adhesion, re-coatability, and dirt pick up.
- Compatibility with a variety of waterborne polymer systems, including many:
- Acrylics
- PUDs
- Styrene Acrylics
- o Alkyds
- Epoxies

Typical Physical Properties

CoatOSil DRI waterborne silicone resin is a low viscosity emulsion with the following typical characteristics:

Value		
White, opaque liquid		
~ 45%		
1.1		
~ 20 cps		
~ 11		
~ 120		

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

Recommended Applications/Basic Uses

- Architectural Coatings
- Wood Coatings
- Concrete Coatings
- Roof Coatings

General Considerations for Use

Typical dosages of CoatOSil DRI waterborne silicone resin are between 5% and 30% when used as a co-binder in latex systems to improve water and UV resistance. To aid in evaluating the silicone for use as a sole binder, the typical physical properties of the neat product applied via drawdown and cured at room temperature are shown below:

Typical Properties of Cured Film	Value
Tensile (psi)	~ 500
Elongation (%)	~ 450
Hardness (Shore A)	~ 30
Elastic Recovery (%)	> 90%
Tg (measured by DSC)	- 41 °C

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Patent Status

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Limitations

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

Contact Information Email commercial.services@momentive.com

Telephone

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392	Brazil	Europe	China
Toll free*	+55 11 4534 9650	+390510924300	800 820 0202
+704 805 6946	Direct Number	Direct number	Toll free
Direct Number			+86 21 3860 4892

			Direct number
*All American	Mexico	India, Middle East &	Japan
countries	+52 55 2169 7670	Africa	+81 3 5544 3111
	Direct Number	+ 91 44 71212207	Direct number
		Direct number*	
		*All Middle Eastern	Korea
		countries, Africa, India,	+82 2 6201 4600

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