

MOMENTIVE[®]

SOLUTIONS FOR A SUSTAINABLE WORLD™

EUROPE

Additives & Resins

FOR ARCHITECTURAL COATINGS





Momentive Performance Materials offers additives and resins, including both silicones and silanes, that can help formulators develop high-performance coatings for interior, exterior, and roofing applications.

CoatOSil CLEAN Silicone Emulsion



Consumers are looking for paints that can keep wall surfaces looking cleaner and newer for longer.

CoatOSil CLEAN is a low-VOC*, functional silicone emulsion that helps formulators enhance surface properties to preserve aesthetics of interior paints.

*<20 g/L VOC Using EPA Method 24".

KEY FEATURES & TYPICAL BENEFITS

- Improved hydrophobicity and oleophobicity
- Improved cleanability of certain household stains
- Reduced surfactant leaching
- Improved anti-blocking, slip, and scuff resistance in low PVC paints (<25%)

REDUCED SURFACTANT LEACHING

(ASTM 7190)

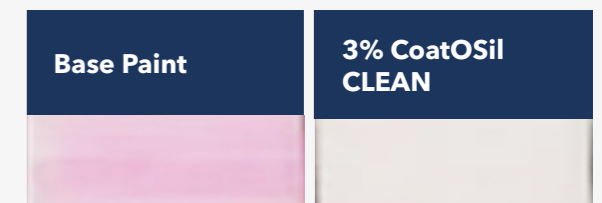
Incorporation of CoatOSil CLEAN silicone emulsion in a 19% PVC paint reduces leaching of surfactants from paint films and minimizes water-trail marks to maintain aesthetics for longer time.



Test results. Actual results may vary.

IMPROVED STAIN RESISTANCE/REMOVAL

In a 19% PVC paint, incorporation of 3% CoatOSil CLEAN silicone emulsion enables better removal of lipstick stain.



Test results. Actual results may vary.

CoatOSil™ CLEAN Silicone Emulsion

Surfaces look newer longer



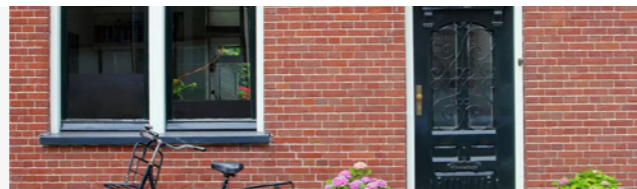
CoatOSil SE 610/SE 611 Silicone Emulsions

Provide durable scuff resistance to interior paints



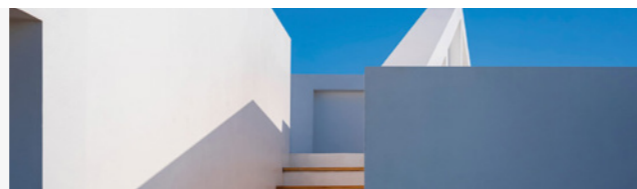
CoatOSil PRIM-2 Silicone Emulsion

Superior water resistance for masonry substrates



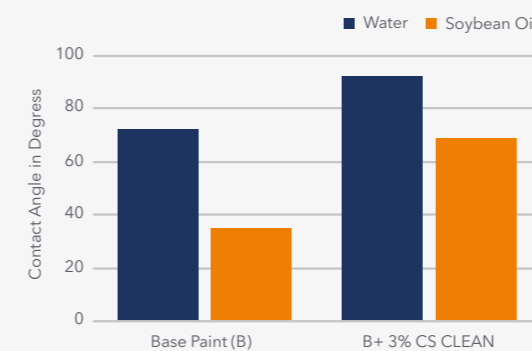
CoatOSil SE 620 Silicone Emulsion

Enhances hydrophobicity and reduces chalking/color-fading of exterior paints



INCREASED HYDROPHOBICITY AND OLEOPHOBICITY

The addition of CoatOSil CLEAN silicone emulsion increases both water and oil advancing contact angles, which may help resistance or cleanability of certain household stains.



Test results. Actual results may vary.

CoatOSil SE 610/SE 611 Silicone Emulsions



CoatOSil SE 610 and SE 611 (with reduced cyclic siloxanes) are low-VOC*, functional silicone emulsions that can be used as additives in interior waterborne paint formulations to enhance surface properties and performance.

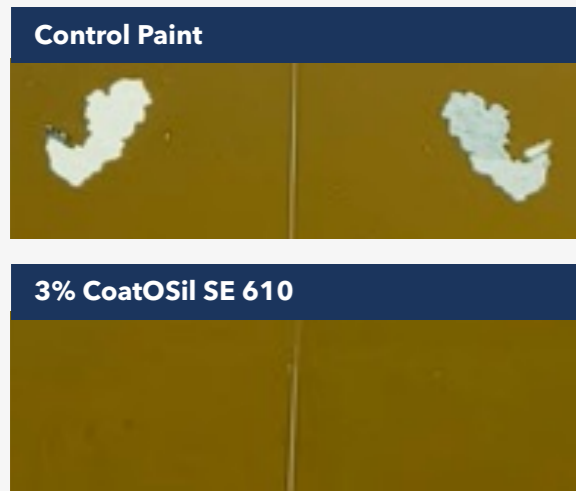
*<20 g/L VOC Using EPA Method 24".

KEY FEATURES & TYPICAL BENEFITS

- Outstanding scuff resistance across low to high PVC (<50%)
- Improved bock resistance
- Reduced coefficient of friction
- Easy to incorporate under low shear

ANTI BLOCKING

CoatOSil SE 610 and SE 611 silicone emulsions can improve anti-blocking performance and can be considered as alternatives to PFAS-containing products.



Test results. Actual results may vary.

DURABLE SCUFF RESISTANCE

Coatings containing 1-5 wt% of CoatOSil SE 610 or SE 611 silicone emulsions can resist scuff marks from objects like rubber, plastics, leather, etc. Scuff performance is maintained even after 500 cycles using ASTM non-abrasive medium, simulating long-term performance after repeated cleaning.



Test results. Actual results may vary.

CoatOSil PRIM-2 Silicone Emulsion



CoatOSil PRIM-2 emulsion is a high-active (64%), lower VOC* emulsion based on Momentive's proprietary silane/siloxane technology.

It has excellent hydrophobic properties and can be used for a variety of construction applications where water and efflorescence resistance are desired. It has excellent depth of penetration as a surface sealer.

*<150 g/L VOC Using EPA Method 24".

KEY FEATURES & TYPICAL BENEFITS

- Reduced capillary water absorption with water-beading effect
- Improved efflorescence resistance
- Excellent depth of penetration
- Enhanced hydrophobicity even after UV exposure
- Excellent shelf life and freeze-thaw stable

POTENTIAL ARCHITECTURAL APPLICATIONS

- Water-repellent surface treatment

PROTECTED & RESTORED MASONRY SUBSTRATES WITHOUT CHANGING COLOR OR APPEARANCE

When used as a sealer, CoatOSil PRIM-2 emulsion can typically be diluted by using 1 part emulsion with 9 to 18 parts water before application, resulting in 3-6 wt% of active solution.



Test results. Actual results may vary.

CoatOSil SE 620 Silicone Emulsion

CoatOSil SE 620 is a low-VOC*, functional silicone emulsion which can be used as an additive in exterior waterborne paint and sealant formulations to enhance hydrophobicity and durability.

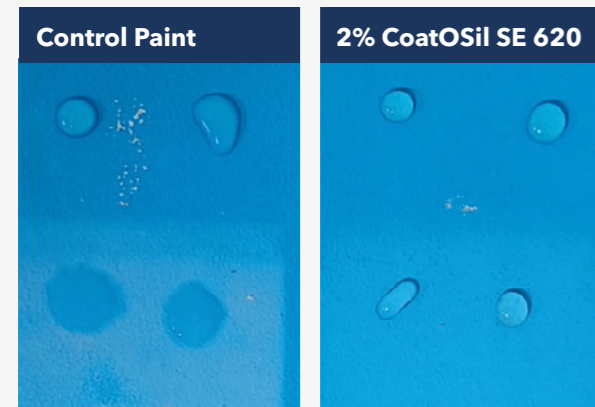
*<20 g/L VOC Using EPA Method 24".

KEY FEATURES & TYPICAL BENEFITS

- Improved weatherability (reduced color fading and chalking)
- Increased water contact angle/water-beading
- Improved block resistance
- Reduced surfactant leaching

REDUCED COLOR FADING AFTER WEATHERING

Incorporation of CoatOSil SE 620 silicone emulsion results in significantly lower color fading after accelerated weathering (QUV-A and condensation cycles) and maintains hydrophobicity in comparison to control paint without this additive.

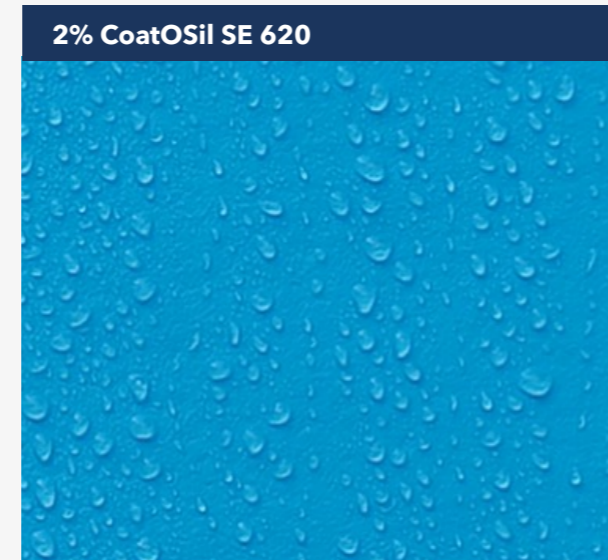
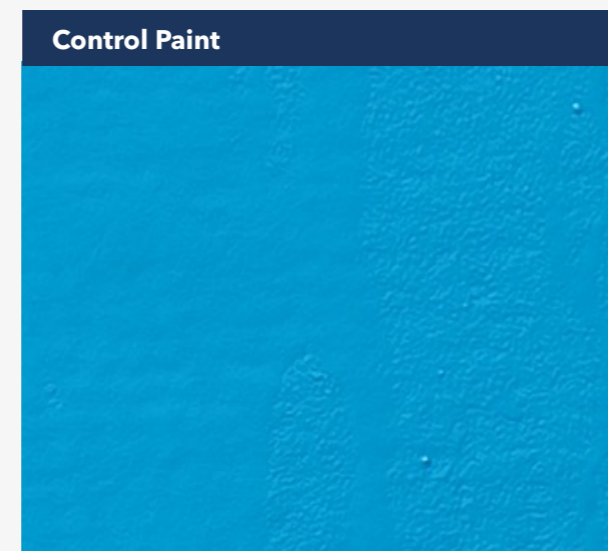


Test results. Actual results may vary.

After 4000 hrs of accelerated weathering in 50% PVC paint, CoatOSil SE 620 silicone emulsion shows better retention of color and hydrophobicity. Bottom part was exposed and top part was unexposed to UV.

ENHANCED WATER-REPELLENCY & BEADING

Incorporation of CoatOSil SE 620 silicone emulsion enhances water repellency and reduces wetting of paint after water spray, simulating rain.



Test results. Actual results may vary.

Product Selection & Usage Guide

Product Category	Product Name	Typical Benefits	Interior Paint	Exterior Paint	Roof Coating/Sealant	Porous Masonry Sealer
Surface Modifier Additives	CoatOSil CLEAN/CLEAN MF	Improves hydrophobicity and oleophobicity. Reduces blocking, surfactant leaching, and scuffing for PVC<25%.	••	•		
	CoatOSil SE 610/SE 611	Reduces blocking and scuffing for PVC<50%.	••			
	CoatOSil F	Reduces chalking/color fading after weathering.		•		
	CoatOSil SE 620	Improves hydrophobicity (beading). Reduces blocking and chalking/color fading after weathering.	••	••		
	CoatOSil SE 623	Improves hydrophobicity (beading) and efflorescence resistance.	•	•		
	CoatOSil PRIM-2	Reduces water absorption and efflorescence.				••
Binders/Co-Binders	CoatOSil DRI	Reduces water absorption, improves UV resistance.			••	•
	CoatOSil FF 630	Reduces water absorption, improves UV stability. Low cyclic siloxanes content.			••	•
Silane Adhesion Promoters/Crosslinkers	CoatOSil MP 200	Epoxy silane oligomer, trimethoxy, for waterborne and solventborne systems.	••	••	••	
	CoatOSil 1871	Epoxy silane, triethoxy, for waterborne systems.	•	•	•	
	CoatOSil 2287	Epoxy silane, diethoxy, for waterborne systems.	•	•	•	
Flow, Leveling, and Wetting Additives	CoatOSil 1770	Epoxy silane, triethoxy, for waterborne systems.	•	•	•	
	CoatOSil 7001LC	Improves flow/leveling and surface uniformity.	••	•		
	CoatOSil 77	Enables wetting on difficult substrates. Suitable for formulations with pH 6.5-7.5.	•	•		
	CoatOSil 1211C	Enables wetting on difficult substrates. Suitable for formulations with pH 6-9.	••	••		

• Suitable •• Most suitable **Bold:** Potential Candidate to Replace PFAS-based Products

CUSTOMER SERVICE CENTERS

Worldwide

Email: commercial.services@momentive.com

North America

+1 800 295 2392 Toll free⁽¹⁾

Latin America

Brazil

+55 11 5128 4222 Direct number

Mexico

+52 55 2169 7670 Direct number

Europe, Middle East, Africa & India (EMEAI)

Europe

+39 0875 758888 Direct number

India, Middle East & Africa

+91 44 71212207 Direct number⁽²⁾

Asia Pacific (APAC)

China

800 820 0202 Toll free

+86 21 3860 4928 Direct number

Japan

Sales-JP.Silicones@momentive.com

South Korea

+82 2 3495 2141 Direct number

South East Asia, Australia & New Zealand

+60 3 8309 8088 Direct number⁽³⁾

(1) America, Canada

(2) All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka

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