



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



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

CoatOSil CLEAN Silicone is a functional silicone emulsion that helps formulators to enhance scuff and surfactant leaching resistance in their paint formulations.

KEY FEATURES & TYPICAL BENEFITS

- Improves hydrophobicity, oleophobicity and slip even after QUV exposure
- Improved surfactant leaching resistance
- Enhances scuff resistance
- Lower VOC
- Improved anti-blocking

ENHANCED SCUFF RESISTANCE

Application tests have demonstrated that the addition of less than 3% of CoatOSil CLEAN Silicone can reduce the surface friction by up to 80%. Resulting in strong and durable scuff-resistance that helps guard the painted surfaces from changes in appearance due to everyday wear.

REDUCED SURFACTANT LEACHING

(ASTM 7190)

CoatOSil CLEAN Silicone sample has improved appearance after testing. Surface hydrophobicity is much improved.

Control	3% CoatOSil CLEAN Silicone

CoatOSil™ CLEAN Silicone

Keeping surfaces looking newer longer



CoatOSil DRI Waterborne Resin

Film-Forming technology that boosts performance of multiple coatings



CoatOSil PRIM-2 Emulsion

Superior water resistance for masonry substrates



CoatOSil F Emulsion

Excellent scuff resistance of interior and durability for exterior coatings



Flat Wall Paint (PVC 40%)

Marker Cap
Pen Cover
Cork (Stopper)



Flat Wall Paint with 3% CoatOSil Clean (PVC 40%)



CoatOSil DRI Waterborne Resin

A proprietary film-forming technology for durable and cleanable coatings.

CoatOSil DRI Waterborne Resin has a distinctive chemical structure that enables it to overcome the difficulties of combining silicone materials with organic waterborne resins and delivers multiple performance benefits. CoatOSil DRI Waterborne Resin is versatile and can be used with multiple latexes, and features easy incorporation as an additive, or cobinder.

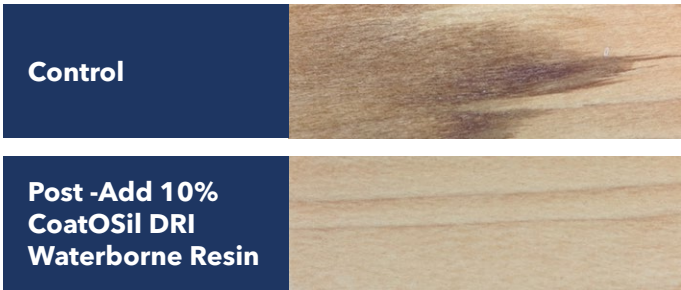
KEY FEATURES & TYPICAL BENEFITS

- Increased mar
- UV Stability
- Water resistance
- Film flexibility
- Tannin resistance
- Lower VOC

REDUCES TANNIN LEACHING

Commercially available semi-transparent wood stain and sealer as control.


Panel with CoatOSil DRI Waterborne Resin features no tannin leaching in water.




MAINTAIN FILM FLEXIBILITY

Mandrel Bend Test On Resin Films After 2000 Hours QUV B

Styrene Acrylic Latex Commercial Sample
Many cracks after bend



Styrene Acrylic Latex Blend with 10% CoatOSil DRI Waterborne Resin
No cracks after bend



IMPROVED UV STABILITY

Comparing after 500 hours QUVA

Coated wood sample	Loss % on 60 gloss	Color change ΔE
Control	25	33.7
Post add 10% CoatOSil DRI Waterborne Resin	4	21.5

CoatOSil PRIM-2 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 and ease of incorporation as a cement concrete admixture.

TSCA Registration in progress.

KEY FEATURES & TYPICAL BENEFITS

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

POTENTIAL ARCHITECTURAL APPLICATIONS

- Water repellent surface treatment
- Concrete admixtures

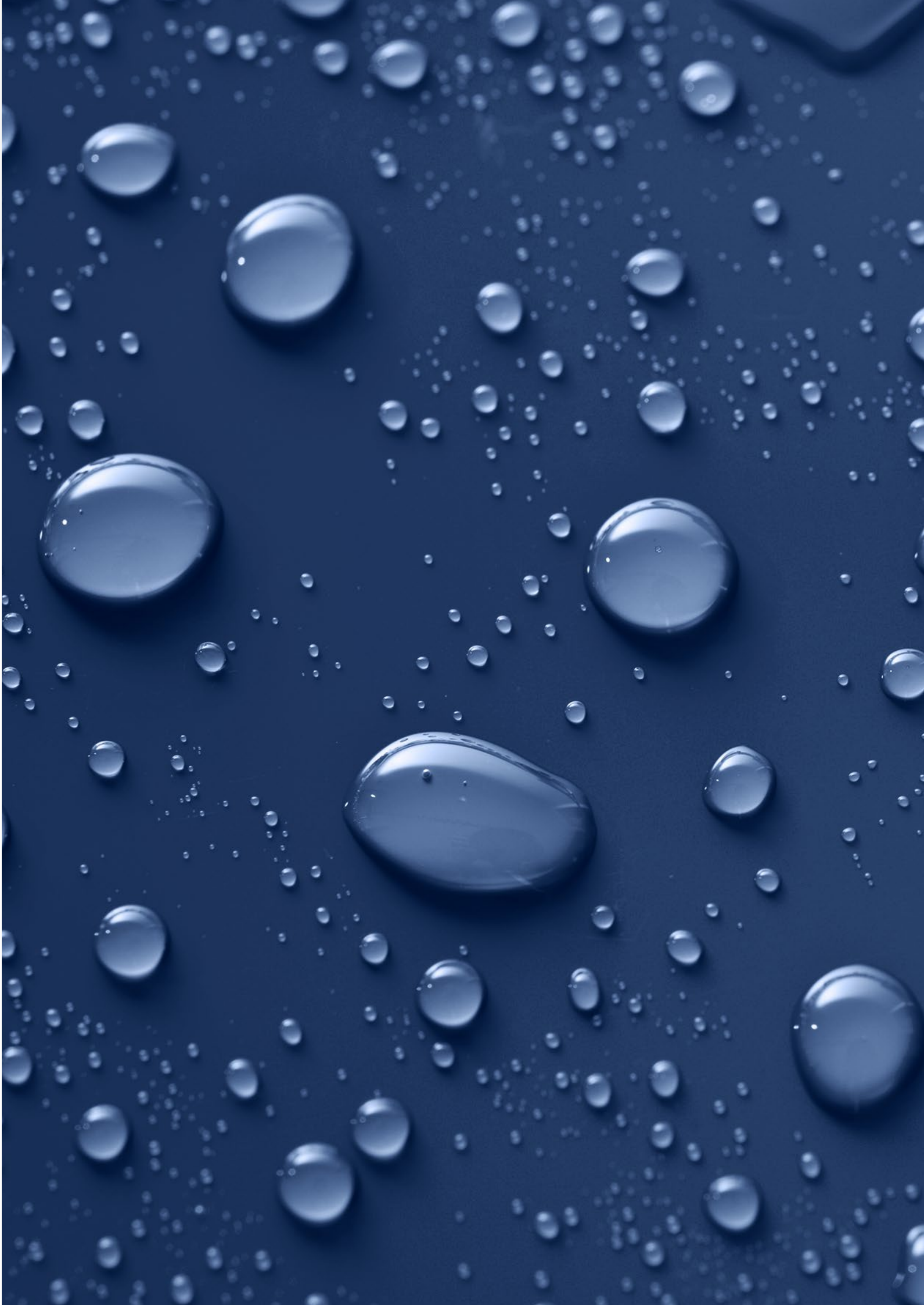
PROTECT & RESTORE MASONRY SUBSTRATES WITHOUT CHANGING COLOR OR APPEARANCE.

When used as a sealer, CoatOSil PRIM-2 Emulsion can typically be diluted by using 1-part emulsion and 6 parts or more water before application. High efficacy at low dosage (3% to 6% active) or even less.



Product Selection & Usage Guide

Products	Description	Interior	Exterior	Concrete sealer	Wood	Roofing	Active %	Use level	Benefits
CoatOSil DRI Waterborne Resin	Waterborne silicone resin	•	•	•	•	•	45%	1%-10% total weight	Improved UV resistance Improved water resistance Enhanced mar resistance Compatible with wide variety of waterborne coatings
CoatOSil CLEAN Silicone	Functional silicone emulsion	•	•	x	•	x	45%	1% - 3% total weight	Excellent scuff resistance Reduced surfactant leaching
CoatOSil PRIM-2 Emulsion	Silane/siloxane emulsion	x	x	•	x	x	64%	1 part emulsion and 5 to 9 parts water	Improved water beading and efflorescence resistance Excellent depth of penetration Reduced capillary water absorption
CoatOSil F Emulsion	Silicone emulsion	•	•	x	x	x	60%	1 part emulsion to 9 parts water	Improved scuff resistance Improved color retention Reduced chalking after weathering
Silquest A-1871 Silane	Epoxy silane	•	•	x	x	•	100%	0.5%-2% total resin solids	Better hydrolytic stability Improved wet and dry adhesion HAPS free additive
CoatOSil MP-200 Silane	Epoxy functional silane oligomer	•	•	x	•	•	100%	0.1%-2% total resin solids	Improved abrasion/scrub resistance (particularly in highly filled formulations) Water absorption reduction Improved wet and dry adhesion
CoatOSil 1770 Silane	Epoxy silane	•	•	x	•	•	100%	0.5%-5% total resin solids	Improved water/solvent/impact/mar resistance Superior wet and dry adhesion Excellent gloss retention upon aging
CoatOSil 2287 Silane	Epoxy silane	•	•	x	•	•	100%	0.5%-2% total resin solids	Enhanced water resistance Improved wet and dry adhesion Performance consistency with aging



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