

# Silicon-Based Water Repellents from Dow Corning - North America



Water repellents from Dow Corning are available for use in formulations that penetrate a broad range of substrates, including:

- Poured-in-place or precast concrete
- Concrete block
- Sandstone/Granite
- Limestone/Marble
- Brick/Tile
- Wood

They extend the life of substrates for years in the toughest environments by providing a variety of benefits, including:

- Excellent water repellency
- UV stability
- Reduced efflorescence
- Water vapor permeability
- Clear, uniform, neutral appearance
- Reduced freeze-thaw damage
- Long-term durability

Dilute formulations of *Dow Corning*<sup>®</sup> brand water repellents can be easily applied by dipping, spraying or brushing.

## For More Information

Visit our Coatings website at [www.dowcorning.com](http://www.dowcorning.com) for specific data sheets on *Dow Corning* silicon-based water repellent products. Or call our Customer Service professionals at 1-800-248-2481.

## Product Applications

<i>Dow Corning</i> <sup>®</sup> brand Product	Concrete (New)	Concrete (Old)*	Lightweight Concrete Block	Sandstone/Granite	Limestone/Marble	Brick/Tile	Wood
772 Water Repellent				●		■	
777 Water Repellent				●		■	
Z-2306 Silane (i-butyltrimethoxysilane)	■	●†					
Z-6403 Silane (i-butyltriethoxysilane)	■	●†					
Z-6341 Silane (n-octyltriethoxysilane)	■	●†					
Z-6672 Silane (i-octyltrimethoxysilane)	■	●†					
2-9034 Emulsion							■
Z-6689 Water Repellent	●	■	■	●		■	
520 Dilutable Water Repellent Emulsion	●	■	■	■		■	
MH-1109 Fluid				■	■		

■ Primary applications ● Secondary applications

\* Old concrete is defined as concrete where the pH is too low for effective silane cure.

† These silanes can be used to obtain maximum penetration on old concrete. A catalyst should be added to obtain the best results.

**Typical Properties: These values are not intended for use in preparing specifications**

Dow Corning® brand Product	Chemistry	Key Features/ Benefits	Active Solids Content, %	Formulation Options	Typical Dilution Levels, %	pH	Specific Gravity	Flash Point, (Closed Cup) °C (°F)	Volatile Organic Content (VOC), g/L
772 Water Repellent	Sodium Methyl Siliconate	Performs at low solids levels	30	Dilutable with water	0.5-3	13	1.25	N/A	80
777 Water Repellent	Potassium Methyl Siliconate	Performs at low solids levels	40	Dilutable with water	0.5-3	13	1.29	N/A	50
Z-2306 Silane	i-butyl-trimethoxy-silane	NCHRP performance and deep penetration	95+	Dilutable with solvent	20-40	N/A	0.92	35 (95)	380
Z-6403 Silane	i-butyl-triethoxy-silane	NCHRP performance and deep penetration	98	Dilutable with solvent	20-40	N/A	0.88	>31 (>88)	423
Z-6341 Silane	n-octyl-triethoxy-silane	NCHRP performance and deep penetration	98	Dilutable with solvent	20-40	N/A	0.875	>63 (>145)	329
Z-6672 Silane	i-octyl-trimethoxy-silane	NCHRP performance and deep penetration	98	Dilutable with solvent	20-40	N/A	0.91	63 (>145)	270
2-9034 Emulsion	Organo-silicone Emulsion	Performs well on wood at low solids levels	50	When blended with a wax emulsion, dilutable in water	4-8	N/A	0.94	N/A	76
Z-6689 Water Repellent	Silane/Siloxane Concentrate	Performs at low solids levels, fast beading	98+	Dilutable with solvent	5-20	N/A	0.96	65.5 (150)	73
520 Dilutable Water Repellent Emulsion	Silane/Siloxane Emulsion	Performs at low solids levels	40	Dilutable with water	5-20	4.5	0.985	>100 (>212)	<300
MH-1109 Fluid	Siloxane Concentrate	Superior performance at low solids levels on natural stone	100	Dilutable with solvent	5-20	N/A	0.98	30 (86)	294

N/A = not applicable

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Printed in USA

AGP6361

Form No. 62-767E-01

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