

WATER-TITE™

Water repellent for masonry surfaces

FEATURES

- Imparts water repellency to a wide variety of substrates

BENEFITS

- Reduces water absorption into substrates, thus reducing spalling due to freeze-thaw and efflorescence
- Colorless and non-yellowing protection preserves the natural appearance of substrate
- Penetrating and breathable
- Low VOC
- Non-flammable

COMPOSITION

- Water dilutable sodium methyl silicate solution
- Slightly red

APPLICATIONS

- Bricks; to increase water repellency and reduce water absorption
- Manufactured and natural stones, such as limestone, sandstone and ceramics; to reduce efflorescence and improve resistance to effects of weathering
- Roofing granules and other products used in contact with asphalt; to provide stain resistance and to improve adhesion of granules to asphalt
- High absorptive mineral aggregates such as *Perlite™*; to reduce water absorption
- Decorative tile; to seal against moisture
- Stucco wall systems

TYPICAL PROPERTIES

Test	Unit	Value
Solids Content, after 90 min at 150°C (302°F)	percent	30
Silicone Solids Content	percent	19
Specific Gravity at 25°C (77°F)		1.25
Flash Point, open cup	°C (°F)	>100 (212)
pH		13
Density	lb/gal (g/L)	10.4 (1250)
Solvent (thinner)		Water
Volatile Organic Compound Content	lb/gal (g/L)	0.33 (39)

DESCRIPTION

WATER-TITE™ is a nonflammable, water soluble sodium methyl silicate solution designed to impart water repellency to a wide variety of surfaces. Supplied at a concentration of 30 percent solids in water, WATER-TITE™ is usually diluted to a concentration of 3 percent before being applied. The final concentration depends on the application. The silicate reacts with moisture and carbon dioxide in the air to form an insoluble water-resistant resin within 24 hours.

metals. If contamination does occur, wash immediately with water. Due to the high solvent resistance of the cured material,

HOW TO USE

WATER-TITE™ is primarily used as a material additive or surface treatment in applications that utilize its ability to impart a water repellent surface and reduce water absorption.

As a Surface Treatment

WATER-TITE™ is diluted to a concentration of 3 percent solids or less just prior to application. To prepare a 3 percent solution, mix one gallon (3.8 liters) of WATER-TITE™ as supplied with 11 gallons (41.6 liters) of clean water.

LIMITATIONS

This product is neither tested nor represented as suitable for medical

Do not use concentrations higher than 3 percent solids unless prior testing indicates a necessity. The use of higher concentrations than

required may result in the formation of a white residue on the surface. Users should test any concentration on the substrate prior to use.

After application of the silicone solution, the treated surface should be allowed to dry at least 24 hours to develop maximum water repellency. This interval may be shortened somewhat by force-drying at temperatures up to 149°C (300°F). While this removes the water quickly, time must be allowed for the curing reaction between WATER-TITE™ and the surface being treated. CO₂ streams do not appear to reduce the cure time appreciably.

Application Methods

Dilute solutions of WATER-TITE™ can be applied by dipping, spraying or brushing.

Surfaces to receive water soluble silicone should be lightly dampened immediately prior to application.

Water soluble silicon does not wet a surface that has been previously treated with a water repellent.

When spraying WATER-TITE™, great care should be taking to protect nearby vegetation or articles from overspray. The material is very caustic. It will damage or kill vegetation and will stain or etch glass, plastic, aluminum and most

water repellent that has dried on glass must be scraped, and other surfaces may require sandblasting.

If a white precipitate of Na₂CO₃ should form due to the use of water repellent, rundown, overlapping, or second coating, and blasting or wire brushing may be necessary to remove if the water does not.

PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATE SHEET IS AVAILABLE ON INCÍDE TECHNOLOGIES® WEB SITE AT WWW.INCIDETECH.COM.

STORAGE

Product should be stored at or below 25°C (77°F) in original, unopened containers.

If the temperature is allowed to drop below freezing, a crystalline structure may develop. This does not permanently impair the effectiveness of the material. When heated to room temperature, the solution will again become clear and ready for use.

or pharmaceutical uses. Not intended for food use.

SHIPPING LIMITATIONS

DOT Classifications: Corrosive Material.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer’s tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

InCíde Technologies’ sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

INCÍDE TECHNOLOGIES SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

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Table 1: Performance of WATER-TITE™ on Various Substrates¹

Substrate	% Active Total Solids	Coverage Rate, ft ² /gal (m ² /l)	% Water Exclusion vs. Control after 72	% Water Absorption after 72 hours ³
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			hours²	
Limestone	3	50 (1.2)	62.1	2.3
	control			6.0
Glen Gary Salem Brick	3	200 (4.9)	75.4	1.1
Belden Alamo Jumbo Brick	control	130 (3.2)	74.4	4.6
	3			1.2
Belcrest 350 Brick	control	110 (2.7)	65.2	4.70
	3			1.50
	control			4.50

¹Modified Federal Specifications SS-W-110C testing or Modified ASTM D 6532 – brick or stone sample supported in ¼ inch (6 mm) of water for 72 hours.

²Calculations is based on weight gain of control.

³Calculation is based on weight of block before soaking.