



## Technical Data Sheet

### XIAMETER™ OFS-6595 Silane

Active component for formulating penetrating water repellent treatments

#### Features & Benefits

- Dilutable in common solvents to formulate water repellent products
- Produces a hydrophobic treatment that inhibits water absorption
- Excellent performance at low active solids levels, ranging from 5 to 10 percent
- Small molecular structure allows product to deeply penetrate the substrate
- Chemically bonds to substrates
- Performs on both neutral and alkaline substrates
- Reduces water absorption, thus reducing cracking and spalling caused by freeze-thaw and efflorescence, thereby increasing substrate life
- Treatment does not change substrate appearance when properly formulated and applied
- Effective at concentrations as low as 5 percent actives

#### Composition

- Solvent-free silane/silicone resin concentrate
- Clear liquid

#### Applications

- For use on substrates such as brick, stone, concrete and mortar that require water repellency

#### Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Color		Clear to straw
Active Ingredient	%	> 99
Specific Gravity at 25°C (77°F)		1.02
Flash Point, Closed Cup	°C (°F)	44 (111)
Density	lb/gal	8.52
Solvent (Thinner)		Alcohol, aromatic or aliphatic hydrocarbons or silicone solvent

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XIAMETER™ OFS-6595 Silane

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## Description

XIAMETER™ OFS-6595 Silane is a silane/silicone resin concentrate that is dilutable in common solvents to formulate water repellents. When properly applied (using accepted water repellent application techniques), the formulated product will penetrate and provide water repellency by chemically reacting with the substrate. Treated substrates become hydrophobic while retaining their original appearance.

The active ingredients in XIAMETER OFS-6595 Silane react with moisture to produce reactive hydroxyl functionality. This functionality forms bonds to the substrate, reacting to cure and produce a hydrophobic treatment that inhibits water absorption.

## How To Use

### Dilution

Before use, XIAMETER OFS-6595 Silane should be diluted in solvents such as aliphatic hydrocarbons, aromatic hydrocarbons, anhydrous alcohols or low-molecular-weight Cyclic polydimethylsiloxanes, such as XIAMETER™ PMX-0244 Cyclotetrasiloxane.

Exposure to water before use as a treatment may cause the material to cure in the container.

A typical dilution level for general purpose water repellency is 5 percent active XIAMETER OFS-6595 Silane and 95 percent solvent (1 part XIAMETER OFS-6595 Silane to 19 parts solvent). Recommended use levels are between 5 and 10 percent depending on the surface to be treated.

### Application

XIAMETER OFS-6595 Silane can be applied by airless sprayer, roller or brush. When a brush or roller is used, applications should be repeated until the surface remains moist for a few minutes. If an airless sprayer is used, application should continue until the substrate is thoroughly saturated. On vertical applications, material should be applied from the bottom up and 6 to 8 inch (15 to 20 cm) rundown should be achieved. Sprayers should be fitted with solvent-resistant hoses and gaskets.

A test application is recommended on each surface to be treated to ensure compatibility and the desired water repellency results. Surfaces should be free of standing water, surface dirt, dust, oils, and other contaminants. Although formulated XIAMETER OFS-6595 Silane may be applied to slightly damp surfaces (surfaces should feel dry and not wet to the touch). Dry surfaces are preferred to achieve maximum penetration into the substrate.

As with most treatments, plants or shrubs should be protected from exposure to the treatment. Windows and any other material that should not be treated must be protected, otherwise cleaning with solvents may be necessary to remove the treatment. Likewise, if applied as spray, control overspray and drift to prevent contamination of nearby substrates, especially windows, vehicles, etc.

## Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT [WWW.CONSUMER.DOW.COM](http://WWW.CONSUMER.DOW.COM), OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

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## Usable Life And Storage

Keep away from heat and open flame. When stored at or below 25°C in the original unopened containers, this product has a usable life of 9 months from the date of production.

## Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## Health And Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, [www.consumer.dow.com](http://www.consumer.dow.com) or consult your local Dow representative.

<http://www.xiameter.com>

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