

# XIAMETER<sup>®</sup> OFS-2306 Silane

To assist in formulating penetrating treatments that provide water repellency

## FEATURES

- Can be used in the formulation of water repellent products
- Produces a hydrophobic treatment that inhibits water absorption

## BENEFITS

- Small molecular structure for deep penetration of concrete surfaces

## COMPOSITION

- Silane
- Liquid

## APPLICATIONS

- Commercial buildings
- Parking decks/garages
- Highways
- Bridge structures

## TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local XIAMETER<sup>®</sup> sales representative prior to writing specifications on this product.

Test	Unit	Value
Color		Clear
Purity	%	96
Specific Gravity at 25°C (77°F)		0.92
Flash Point, open cup	°C (°F)	35 (95)
Density	lb/gal	7.7
Volatile Organic Compound (VOC) Content	g/L	344
Solvent (Thinner)		Isopropanol, ethanol or various flash point mineral spirits

## DESCRIPTION

XIAMETER<sup>®</sup> OFS- 2306 Silane is high purity, undiluted isobutyltrimethoxy-silane. When diluted with an appropriate solvent, it can be used in the formulation of water repellent products. Upon proper application, the formulated product will penetrate and provide water repellency by chemically reacting with the cementitious substrate. Treated substrates are hydrophobic and retain their original appearance.

XIAMETER OFS- 2306 Silane is a small molecule to allow for deep penetration into the cementitious surface. This material reacts with moisture in the air and in the substrate in the presence of an alkaline or acidic environment to produce hydroxyl groups. These hydroxyl groups will bond with

the substrate and itself to produce a hydrophobic treatment that substrate. An alkaline environment, such as new concrete, will catalyze the reaction and speed the formation of the hydrophobic surface.

## HOW TO USE

### Dilution

XIAMETER OFS-2306 Silane should be diluted in solvent such as alcohols, chlorinated solvents, aliphatic solvents and low molecular weight cyclic polydimethyl siloxane such as XIAMETER<sup>®</sup> PMX-0244 Cyclosiloxane before use. Typical dilution levels are 40 percent and 20 percent XIAMETER OFS-2306 Silane in a solvent.

Blends of the solvents can also be used. The evaporation rate of the diluted material can be modified depending on the type and concentration of the solvent. Select the proper solvent for your application, as some silane/solvent blends may darken surface. Refer to the manufacturer's data sheet for proper handling and disposal of solvents.

**NOTE:** When using any solvent, always provide adequate ventilation. Following handling precautions on the solvent container label.

## APPLICATION

Methods of application include airless sprayer, roller and brush. When a brush or roller is used, repeated applications should be made until the surface remains moist for a few minutes. If an airless sprayer is used, application should continue until the substrate is thoroughly saturated. Sprayers should be fitted with solvent-resistant hoses and gaskets.

A test application is necessary on each surface to be treated to ensure compatibility and the desired water repellent result. Surfaces should be free of standing water, surface dirt, dust, oils and other contaminants.

Formulated XIAMETER OFS-2306 Silane may be applied to damp surfaces although dry surfaces are preferred to achieve maximum penetration into the substrate.

Any plants or shrubs should be protected from exposure to the treatment. Any material that should not be exposed to solvents should also be protected.

## 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 DATA SHEET IS AVAILABLE ON THE XIAMETER® WEB SITE AT WWW.XIAMETER.COM.

## STORAGE

Product should be stored at or below 25°C in original, unopened containers. The most up-to-date shelf life information can be found on the XIAMETER Web site in the Product Detail page under Sales Specification.

## LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. Not intended for human injection. Not intended for food use.

## LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

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