



## Technical Data Sheet

### XIAMETER™ OFS-6778 Siliconate

Water repellent for masonry surfaces

#### Features & Benefits

- Imparts water repellency to a wide variety of substrates
- Reduces water absorption into substrates, thus reducing spalling due to freeze-thaw and efflorescence, thereby increasing substrate lifespan
- Colorless and non-yellowing protection preserves the natural appearance of a substrate
- Penetrating and breathable
- Low VOC
- Nonflammable

#### Composition

- Water-dilutable potassium methyl silicate solution
- Clear to slightly yellow

#### Applications

- As a surface treatment to impart a water repellent surface and reduce water absorption
- For use on bricks, sandstone, limestone and ceramics

#### Typical Properties

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

| Property  | Unit    | Result           |
|---|---------|------------------|
| Total Solids Content, 90 minutes at 150°C (302°F) | %       | 40–45            |
| Specific Gravity at 25°C (77°F)                   |         | 1.29             |
| Flash Point, open cup                             | °C (°F) | > 93.8 (> 200.8) |
| pH  |         | 13               |
| Solvent (thinner)                                 |         | Water            |

#### Description

XIAMETER™ OFS-6778 Siliconate is a water-dilutable potassium methyl silicate solution designed to impart water repellency to a wide variety of surfaces. Supplied at a concentration of 40 percent in water, XIAMETER OFS-6778 Siliconate is usually diluted to a concentration of 3 percent or less before application. The silicate reacts with carbon dioxide in the air to form an insoluble water-resistant treatment within 24 hours.

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XIAMETER™ OFS-6778 Siliconate

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## How To Use

### As a Surface Treatment

Dilute XIAMETER OFS-6778 Siliconate to a concentration of 3 percent solids or less prior to application. To prepare a 3 percent solution, mix 1 liter of XIAMETER OFS-6778 Siliconate, as supplied, with 13 liters of water.

Do not use concentrations higher than 3 percent solids unless prior testing indicates the necessity, as the use of higher concentrations than required may result in the formation of a white residue on the surface. Prior to use, test the concentration on the substrate.

After application of the silicone solution, allow the treated surface to dry at least 24 hours to develop maximum water repellency. This interval may be shortened somewhat by force-drying at temperatures up to 175°C (350°F). While this removes the water quickly, allow time for the curing reaction between XIAMETER OFS-6778 Siliconate and the surface being treated.

## Application Methods

Dilute solutions of XIAMETER OFS-6778 Siliconate can be applied by dipping, spraying or brushing. Lightly dampen surfaces to be treated immediately prior to application.

## Application Precautions

- Always test the concentration on a small sample of the material to determine the suitability of your specific use.
- This water-soluble silicone will not wet surfaces that have been previously treated with silicone or another water repellent treatment.
- When spraying XIAMETER OFS-6778 Siliconate, protect nearby vegetation or articles from overspray. The material is very caustic and will damage or kill vegetation and will stain or etch glass, plastic, aluminum and most metals. If contact occurs, wash immediately with water.
- If a white precipitate of potassium carbonate should form because of over-application of the water repellent and washing with water does not remove it, it may be necessary to scrub the surface.

## 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.

## Usable Life And Storage

When stored in airtight, sealed containers at or below 25°C (77°F), XIAMETER OFS-6778 Siliconate has a shelf life of 12 months from the date of manufacture. 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.

## Limitations

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

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## 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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