

# SiSiB® WR1689 Silicone Water Repellent

## INTRODUCTION

SiSiB® WR1689 is a high-performance, solvent-free silane/siloxane water repellent designed for formulating penetrating treatments for porous building materials. It can be diluted with a wide range of organic solvents and applied to mineral substrates such as concrete, masonry, sandstone, and cement fiberboards. Upon application, it reacts with surface moisture to chemically bond with the substrate, forming a durable hydrophobic barrier without altering the appearance of the surface.

## FEATURES & BENEFITS

- Solvent-free, low-VOC compliant base concentrate
- Excellent water repellency with contact angles up to 150°
- Fast surface beading effect after drying
- Strong substrate penetration due to small molecular structure
- Chemically bonds with both neutral and alkaline surfaces
- UV and weather resistant
- Allows water vapor permeability while blocking liquid water
- Significantly reduces efflorescence, cracking, and spalling
- Suitable for high dilution (5-15x), cost-effective in use

## PHYSICAL PROPERTIES

Color and Appearance	Clear or lightly yellow liquid
Active Content (%)	100
Density (20°C, g/cm <sup>3</sup> )	0.90-0.95

*These values are typical and are not intended for use as specifications.*

## APPLICATIONS

SiSiB® WR1689 is ideal for:

- Concrete roads, bridges, parking decks
- Masonry, brick, sandstone, and limestone
- Cement fiberboard, calcium silicate board
- Other porous mineral substrates exposed to weather

## USAGE GUIDELINES

### Dilution

Recommended dilution ratio: **1 part WR1689 to 10 parts solvent**

Suitable solvents include:

- D40, D60, 120# solvent oil
- Isopar H
- C6-C10 alkanes

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- Aromatic or alcohol solvents as appropriate
- Always use dry solvents to avoid premature curing in container

### Application

- Application methods: brushing, spraying, dipping
- Ensure surface is clean, dry (or slightly damp), and free of dust or oil
- Apply two uniform coats for optimal penetration
- Do not allow treated surface to be exposed to rain before curing

### Curing

- Allow treated surfaces to dry at ambient temperature
- Accelerated curing can be achieved with heat if needed

#### PACKING

SiSiB® WR1689 is available in 200Kg drum or 1000Kg IBC.

#### STORAGE

SiSiB® WR1689 should be stored under dry conditions, away from direct sunlight. In the unopened original container, it has a shelf life of at least 12 months. Longer storage times may cause lumping which normally does not affect the performance of the product.

Storage beyond the date does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

#### HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

#### NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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a particular purpose or merchantability.

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