

## SiSiB® WR1451 Silicone Resin Emulsion for Masonry Coatings

### INTRODUCTION

SiSiB® WR1451 is a water-dilutable, solvent-free silicone emulsion based on a functional polysiloxane / silicone resin system. It features low VOC, low odor, and excellent water compatibility.

SiSiB® WR1451 can be used as a main binder for silicone resin emulsion coatings or blended into other waterborne building coatings to improve water repellency, water resistance, weatherability, aging resistance, vapor permeability, and anti-soiling performance.

### FEATURES & BENEFITS

- Solvent-free, low VOC, low odor
- Excellent water dilutability
- Improves water repellency and water resistance
- Maintains high water vapor and CO<sub>2</sub> permeability
- Reduces water absorption and soiling tendency
- Enhances weathering and aging resistance
- Mineral-like appearance and long service life when properly formulated
- Compatible with various waterborne building coating systems

### PHYSICAL PROPERTIES

Color and Appearance	Milky white liquid
Viscosity (25°C, cP)	10-100
Solid Content (%)	48-52
pH	6-8

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

### APPLICATIONS

SiSiB® WR1451 is used in the manufacture of waterborne building coatings, either as a primary binder for silicone resin emulsion paints or as a functional component in other waterborne masonry coating systems, providing improved water repellency, durability, and vapor permeability.

Typical applications include:

- Silicone resin emulsion paints
- Exterior and interior wall coatings
- Textured coatings
- Highly filled emulsion coatings
- Lime-based and modified lime coatings

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- Reinforced sealants
- Waterborne exterior wall coatings
- External thermal insulation systems

### USAGE GUIDELINES

SiSiB® WR1451 can be added directly to waterborne coating formulations and dispersed uniformly. The specific dosage should be adjusted according to formulation requirements and performance targets. Compatibility and formulation stability should be verified by preliminary testing. Under ambient conditions, optimum coating performance is typically achieved after approximately 15 days of curing. Outdoor application should be avoided during rainy or snowy weather.

### PACKING

SiSiB® WR1451 is available in 50Kg and 1000Kg IBC totes.

### STORAGE

SiSiB® WR1451 should be stored in its original, tightly sealed containers at temperatures between 0 and 40°C, protected from freezing and direct sunlight. When stored under proper conditions, the product has a shelf life of up to 12 months from the date of production. Material stored beyond the recommended shelf life should be tested to confirm suitability before use.

### 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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