

SiSiB® WR1307 Masonry Water Repellent Emulsion

INTRODUCTION

SiSiB® WR1307 is a solvent-free, water-thinnable silicone emulsion based on a polysiloxane modified with functional silicone resin. It features low VOC, low odor, and excellent water compatibility. The product is designed to enhance water repellency, water resistance, and water vapor permeability of waterborne building coatings and related systems.

SiSiB® WR1307 shows good compatibility with various aqueous binders and can be cold-blended to improve hydrophobicity, durability, weather resistance, aging resistance, and anti-soiling performance of waterborne formulations.

FEATURES & BENEFITS

- Solvent-free, low VOC, low odor
- Excellent water dilutability
- Improves water repellency and water resistance
- Maintains good water vapor permeability
- Enhances durability, weathering, and aging resistance
- Improves processability and antiblocking properties
- Good compatibility with various waterborne binders

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® WR1307 is used as a functional additive in waterborne masonry coatings and primers to improve water repellency, water resistance, and water vapor permeability. It is suitable for silicone resin emulsion paints, silicate emulsion paints, highly filled emulsion coatings, lime-based and modified lime coatings, interior wall coatings, sealants, and reinforced sealants.

SiSiB® WR1307 can also be diluted with water and used as a water-repellent primer for mineral substrates or applied in factory processes for water-repellent treatment of insulation materials.

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PROCESSING GUIDE

SiSiB® WR1307 can be added directly to organic coating formulations and dispersed uniformly. The specific dosage should be adjusted according to performance requirements. It shows good compatibility with organic resin emulsions at various ratios and offers good formulation stability. The recommended addition level is 3-25%.

Under ambient conditions, optimum performance is typically achieved after 15 days of curing. Outdoor application should be avoided during rainy weather.

During formulation design, compatibility and stability should be verified through testing. The presence of components that may react with the resin can affect formulation stability and should be carefully evaluated.

PACKING

SiSiB® WR1307 is available in 50Kg pail and 1000Kg IBC totes.

STORAGE

SiSiB® WR1307 should be stored in its original, tightly sealed containers at temperatures between 0 and 40°C, protected from freezing and direct sunlight. Under proper storage conditions, the product has a shelf life of 9 months from the date of production.

Prolonged storage beyond the recommended period does not necessarily render the product unusable, but its performance should be re-evaluated 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.

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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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