

SiSiB® WR5054 Silicone Hydrophobic Powder

INTRODUCTION

SiSiB® WR5054 is a free-flowing white powder composed of a mineral carrier encapsulating reactive silicone compounds. Upon mixing with water, the silicone is released and covalently binds to the cement matrix, imparting long-lasting water repellency. This additive is specifically designed for cement-based drymix mortars to reduce water absorption and improve durability without compromising water vapor permeability.

FEATURES & BENEFITS

- Prevent penetration of liquids entering solidified cement-based materials via surface or capillary action.
- Provides long-lasting water repellency with strong beading effect
- Efficient at low dosage (0.2-1.0%)
- Minimal impact on compressive strength
- Excellent dispersibility and compatibility with other mortar additives
- Long-term performance even in alkaline environments
- Maintains breathability of cementitious systems

PHYSICAL PROPERTIES

Color and Appearance	Free-flowing white powder
Bulk Density, g/L	200-400
Particle Size, µm	60-120
pH (5% in water)	5.5-8.5
Residual Moisture	<6.0%

These values are typical and not intended for specification purposes.

APPLICATIONS

SiSiB® WR5054 is suitable for a wide range of cement-based drymix systems, including:

- Waterproofing mortars
- Decorative plasters and renders
- Tile adhesives and grouts
- EIFS mortars and repair mortars
- Cementitious waterproof coatings

USAGE GUIDELINES

Recommended dosage: 0.2-1.0% by weight of total dry formulation.
Blend SiSiB® WR5054 homogeneously with other dry ingredients during mortar production. Avoid prolonged high-shear mixing to prevent premature

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degradation of the encapsulation. Water addition during application activates the silicone release.

PACKING

SiSiB® WR5054 is supplied in 15Kg bag.

STORAGE

In the unopened original packing SiSiB® WR5054 has a shelf life of at least 12 months in a dry and cool place.

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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