



Product Overview

CLASS 1051 is a cement-based, powder resin-modified, single-component adhesive mortar characterized by its high adhesion properties. It is specifically formulated for the bonding of tiles and ceramics, offering reduced slippage and enhanced functional attributes.



Application Domains

- On horizontal and vertical surfaces within interior environments.
- On horizontal and vertical surfaces in exterior spaces.
- For applications on concrete or screed flooring surfaces.
- It is utilized for adhering ceramic tiles and ceramics with a maximum dimension of 40x40 cm.



Technical Specifications

Intensity	1,59 kg/lit (± 0,05)
Colour	Ivory, Ash
Water Mixing Ratio	5-6 liters of water for 20 kilograms of powder.
Rest	5-10 Minutes
Working Hours	2.5-3 Hours
Crust Formation Duration	30 Minutes
Initial Tensile Adhesion Strength	≥0,80 N/mm ²
Tensile and Adhesion Strength Following Water Immersion	≥0,85 N/mm ²
Tensile Adhesion Strength Following Heat Aging	≥0,60 N/mm ²
Freeze-Thaw Cycle Tensile Adhesion Strength	≥0,65 N/mm ²
Extended Open Time Tensile Adhesion Strength	0,50 N/mm ²

The information presented in this technical data sheet is derived from experimental results. The responsibility for the proper application of our original product rests with the user. Our company is solely accountable for the product's quality. This data sheet supersedes the information provided in the previous version. Our company reserves the right to amend any information contained within this data sheet.



Advantages

- It is straightforward to prepare and execute.
- It offers user-friendly functionality.
- It exhibits exceptional adhesion performance.
- It can be utilized with self-jointing.
- It is impervious to water and humidity.
- It is resilient and enduring.



Surface Preparation

Care must be taken to ensure that the surface has attained its full strength. The surface must be devoid of dust, oil, paint, dirt, silicone, and other contaminants that could hinder adhesion. Highly absorbent surfaces should be dampened and maintained in a moist condition during application. It is essential to prevent water accumulation on the surface during the moistening process. For surfaces necessitating repair, the area should be filled and leveled with CLASS repair mortar 3-4 days before application.



Mixture

Twenty kilograms of CLASS 1051 powder is combined with 5 to 6 liters of clean water in a sanitized container and mixed for 3 to 4 minutes using a low-speed mixer or drill until a homogeneous mixture is achieved, ensuring the absence of lumps.



Application Details

The ready-to-use CLASS 1051 is applied to the surface intended for bonding with a trowel, ensuring firm pressure to establish a layer. Subsequently, the mortar is combed into the surface using a notched trowel appropriate for the tile's type and/or dimensions. The tiles are then pressed firmly into the mortar, achieving adhesion within a maximum of 20 minutes. A minimum of 90% of the tile's back surface must be in contact with the mortar. Tapping the bonded tiles with a plastic mallet will further enhance adhesion. Depending on the tile's type and dimensions and/or the surface condition, mortar may also be applied to the back of the tiles to facilitate a double-sided bonding approach.



Consumption

3.5 – 4 kg/m² (using a 6mm notched trowel)



PACKAGING

20 kg Kraft Bag



Shelf life

In its unopened packaging, it can be stored for 12 months in a cool, dry location, shielded from sunlight, at temperatures ranging from +10°C to +25°C.



Attention

Avoid applications when the ambient temperature is below +5°C or above +30°C. Do not apply in direct sunlight, rain, or wind. Refrain from applying on surfaces that have been exposed to sunlight for extended periods, are frozen, or are at risk of freezing within 24 hours.

R10: Keep away from children.

R20/22: Harmful if inhaled or ingested.

R52/53: Toxic to aquatic life; may result in long-term detrimental effects in the aquatic ecosystem.

R65: Harmful. May result in lung damage if ingested.

S7: Store in a securely sealed container.

S24/25: Avoid contact with eyes and skin. S28: In the event of skin contact, rinse immediately with ample water.

S29: Do not release into the sewage system.

S46: If ingested, seek medical attention promptly and present the container or label.

LEGAL NOTICE

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