

CLASS 1054

Granite and Ceramic Bonding Agent



BENZKİM

Product Overview
CLASS 1054 is a white, cement-based, single-component, polymer-modified, high-performance adhesive mortar with reduced slip and flexibility, designed for bonding materials such as granite, specialty and artificial stone, tiles, ceramics, porcelain, glass, and mosaic clinker.

Application Domains

- It is utilized for applying ceramic, granite ceramic, and glazed porcelain finishes on walls and floors in both interior and exterior environments.
- It is utilized in regions characterized by significant pedestrian and vehicular traffic.
- Ideal for terrace and balcony applications.
- It is utilized in private, public, and heated swimming pools.

Technical Specifications

Intensity	1,50 kg/lit (± 0,05)
Colour	Ivory, Ash
Water Mixing Ratio	5.5 to 6.5 liters of water for 20 kilograms of powder.
Rest	5–10 Minutes
Working Hours	Maximum of 30 minutes
Crust Formation Duration	35 Minutes
Initial Tensile Adhesion Strength	≥1,25 N/mm ²
Tensile and Adhesion Strength Following Water Immersion	≥1,25 N/mm ²
Tensile Adhesion Strength Following Heat Aging	≥1,25 N/mm ²
Freeze–Thaw Cycle Tensile Adhesion Strength	≥1,25 N/mm ²
Extended Open Time Tensile Adhesion Strength following a minimum duration of 30 minutes.	≥1 N/mm ²
Slip	≤0,5 mm

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

- Safe usage in swimming pools and heated pools.
- Exceptional performance in high pedestrian and freight traffic.

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 1054 powder is combined with 5.5 to 6.5 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.

CLASS 1054

Granite and Ceramic Bonding Agent



BENZKİM



Application Details

The ready-to-use CLASS 1054 is applied to the surface intended for bonding with a trowel, ensuring firm pressure to establish a layer. The mortar on the surface is subsequently combed with a notched trowel appropriate for the type and/or dimensions of the tile to be adhered. The tiles are then pressed firmly into the mortar, achieving a bond within a maximum of 35 minutes. A minimum of 90% of the tile's back 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 using a double-sided bonding technique. Grouting should occur 24 hours later in a horizontal orientation and 48 hours later in a vertical orientation.



Consumption

4 – 4.50 kg/m² (utilizing 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

The information provided herein regarding BENZKİM CLASS products, particularly the recommendations concerning their application and end use, is presented in good faith based on BENZKİM CLASS's current knowledge and experience under standard conditions, provided that these products are stored and applied correctly in accordance with BENZKİM CLASS's guidelines. The variability of products, application surfaces, and application areas in practice is significant. Therefore, when utilizing BENZKİM CLASS products, it is imperative to apply the appropriate product under the correct conditions and in the designated location, while strictly adhering to the information and instructions provided by BENZKİM CLASS regarding commercial suitability and/or suitability for a specific purpose. Failure to do so may result in BENZKİM CLASS being absolved of any responsibility for potential damages. The product user is responsible for testing the product's suitability for the intended application and purpose. BENZKİM CLASS reserves the right to modify the properties of its products. The rights of third parties must be duly respected. All orders are accepted in accordance with our current terms and conditions pertaining to sales and shipping. Users are encouraged to consult the latest version of the local Product Information Sheet for the relevant product, which can be obtained by contacting BENZKİM CLASS.