

CLASS GROUT 123

High-performance, rapid-setting, shrinkage-resistant cementitious grout.



BENZKIM



Product Overview

CLASS GROUT 123 is a shrinkage-free, metal-free, cement-based precision grout mortar formulated with ViscoCrete technology. It is engineered to attain significant early strength and remarkable ultimate strength at a fluid consistency. It is a structural, sensitive grout that can be utilized across a broad temperature spectrum, ranging from a plastic to a fluid consistency.



Application Domains

- Indoor and outdoor
- In anchoring projects
- In the restoration of pavements subjected to vehicular traffic
- In steel structures, for securing columns to the foundation.
- Bearing joints in precast concrete components
- Filling voids, cavities, fissures, and indentations.
- Subsequent fixations



Technical Specifications

Mixture Density	2,2 kg/lit
Grain Size	>10-30 mm
Water Mixing Ratio	2.25-3 liters of water for every 20 kg of powder
Bending Strength	6.21 N/mm ² (28 Days)
Compressive Strength	80 N/mm ² (28 Days)
Application Thickness	10-40 mm
Usage Duration	10 Minutes

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

- Due to its non-shrinking properties, it integrates effortlessly with aged concrete.
- It is straightforward to prepare and execute.
- It is impervious to water, frost, and severe weather conditions.
- It can be applied in thicknesses ranging from 0 to 10 mm at once.
- Its adhesion performance and strength are exceptionally high.
- It does not fracture, diminish, droop, or fail during application.
- It allows the passage of water vapor.
- Fireproof.
- It safeguards steel reinforcement from corrosion.
- It exhibits resistance to oils and acids.



Surface Preparation

The surface must be devoid of dust, oil, paint, dirt, silicone, and any other substances that may hinder adhesion.

To achieve a smooth surface, any loose or damaged concrete must be removed using chisels or leveling tools. If required, the application surface should be cleaned through sandblasting, pressurized water, or air blasting.

The surface must be dampened prior to application. It is essential to ensure that no water collects on the surface following the moistening process.

It is essential to ensure that the mold utilized is adequately secured, leak-proof, and clean.

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Mixture

20 kg of CLASS GROUT 123 powder is combined with 2.25–3 liters of clean water and mixed for 3–4 minutes using a low-speed mixer or drill until the mixture is homogeneous and free of lumps. The prepared mixture is then allowed to rest for 5–10 minutes to mature. It is then stirred once more for 1–2 minutes until it is prepared for use. No additives or chemicals should be introduced to the ready-to-use material thereafter.



Application Details

Depending on weather conditions (sun, wind, etc.), the applied CLASS GROUT 123 should be safeguarded for 48 hours by covering it with CLASS Betokür R or damp burlap.

It is advisable that the mixture in the container be consumed within a maximum of 20 minutes.



Consumption

1.95 kg/m³ (at a thickness of 1 mm)



Colour:

Gray



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 abundant water.

S29: Do not release into the sewage system.

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

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