



MORCEM® GROUT 500

Mortar for filling and precision anchorage. Layers of up to 500 mm



DESCRIPTION

High-strength mortar with self-leveling controlled expansion and no retraction. Medium and thick layers.

ADVANTAGES AND USES

- Compensated retraction.
- Fluid consistency without segregation or bleeding once mixed.
- High initial and final strength.
- Great self-leveling/filling capacity.
- Once hardened, it is waterproof and impervious to oil, grease and all oil products.
- Free of substances that damage concrete and steel.
- Excellent adhesion.
- In confined areas provides good adhesion between concrete / steel. Resists knocks and vibrations.
- Leveling supports and bridges.
- Filling by pouring under support plates ensuring perfect load transmission.
- Filling machinery bedplates.
- Filling by pouring or pumping into cracks and holes confined in the inside of concrete masses.
- Filling and anchoring metal profiles (pillars, pipe supports,...) and prefabricated items.
- Anchorages and bolts.

SUITABLE SUBSTRATES

- The substrate should be clean, firm, rough and free of oil, grease, paints, traces of mold release oils, dust, etc.
- The surfaces should be structurally solid.
- The substrate should be wetted to control suction and prevent sudden water loss, but without leaving puddles on the surface.
- It should have a minimum temperature of +5°C and a maximum temperature of +30 °C.

APPLICATION PROCEDURE

Mixing the mortar:

- Add the product to two thirds of water stipulated. Mix thoroughly adding the remaining water gradually. Do not add more than the recommended amount of water. Mixing can be done manually or mechanically with a mixer at low speed (300 – 600 rpm).

Application:

- After mixing the intended hole can be filled. Avoid taking the mixture any distance before applying it, because moving the mixed mortar may cause decanting.
- For the filling, it is advisable to pour the material and help it using a rod.
- For filling under plates, an air outlet should be provided, so that air can come out easily during the filling with the product.
- On large surfaces, vibrating with a rod or ramming into place with hardwood tamping tools and mallet is recommended.

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MORCEM® GROUT 500

RECOMMENDATIONS

PACKAGING AND STORAGE

TECHNICAL DATA

Application layers:

- Between 20 mm and 200 mm (in confined areas layers of up to 500 mm can be achieved).

Curing:

- Once poured, the product should be protected from the sun, wind, etc.
- It is advisable to cover it using wet sacking for 2 or 3 days.
- The curing process is always essential.
- If filling timber or formwork with the product, you should wait 24 hours to release the mold.

- Do not add more water to the mortar than the recommended amount and do not remix.
- Do not apply at temperatures below 5°C or above 30°C.
- Do not add cement, sand or other substances that may affect the properties of the material.

Bags of 25 Kg of powder.

Shelf life: 1 year in sealed original packaging, sheltered from weather conditions and humidity.

Statistical data obtained under standard conditions

	PRODUCT DATA
Appearance	GREY powder
Density of paste	Aprox. 2,2 g/cm ³
Granulometry	Dmax. 2 mm
Use	Aprox. 2,2 Kg/m ² per mm of thickness
Water/powder ratio	Aprox. 13%
CURVE RESISTANCE	
Compression: (EN 12190)	
1 day	Approx. 30 N/mm ²
7 days	Approx. 50 N/mm ²
28 days	Approx. 65 N/mm ²
Flexural strenght: (EN 12190)	
28 days	Approx. 8 N/mm ²
Pullout resistance	Displacement < 0,6 mm (Load of 75 KN)
Chloride ion content	< 0,05%
Layer thicknesses	20 - 200 mm (up to 500 mm in confined spaces)
Expansion after 28 days	Approx. 0,1%
Adhesion to steel: Ribbed bars	> 15N/mm ²

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CONCRETE REPAIR

MORCEM® GROUT 500

characteristics of the support, humidity and temperature conditions, etc. without being them required in the tests obtained under different conditions, all in accordance with the relevant regulation.