

MC-Grout

Cementitious non-shrinking grout with high strength.

- PRODUCT PROPERTIES:**
- Excellent flowability, easy to apply by pouring and pumping.
 - Capable of compensating for shrinkage, preserving filling volume.
 - Quickly achieves high compressive strength, allowing early load bearing, speeding up construction progress.
 - Easy to use, just mix with water to have a mortar mixture for immediate use.

- AREAS OF APPLICATION:**
- Suitable for grouting and concrete repair: Machine foundations, rail tracks, columns in precast structures, anchor bolts, bridge bearings, railway tracks, holes, gaps, wall recesses, etc.
 - Suitable for repairing or casting precast concrete structures.
 - Waterproofing and reinforcement of construction works, tunnels and underground works.

- APPLICATION NOTES:**
- **MC-Grout** is used to counteract the normal shrinkage of mortar and concrete. It has selected and pre-mixed aggregates to produce a homogeneous, stable, and water-free mixture. Consumption: 76 – 78 bags for 1m³ mortar (depending on the water amount while mixing).
 - **If pouring mortar into large cavities:** Depending on the size and thickness of the mortar layer, large aggregates can be added to **MC Grout** mortar: For example, with diameters of 4-6mm, 8-16mm with a mass equal to 50% to 100% of the dry mass of **MC Grout**. Ensure that the thickness of the poured layer is at least 3 times the largest size of the added aggregate. When constructing thicknesses > 60mm, adding large aggregates and using cold water will reduce the temperature generated during the initial setting process.
 - **Substrate preparation:**
 - Before construction, concrete surfaces must be clean, free of oil, grease and dirt. Metal surfaces must not rust. No standing water.
 - After roughening the concrete surface, the surface must be saturated with moisture.
 - **Mixing:**
 - Use an appropriate mixer and do not mix by hand. Allow 3 minutes mixing time to get a mixture showing homogeneous consistency.
 - Leave the mixture for about 3-5 minutes to reduce the air holes and the chemical components to work together.
 - Placing the grouting material as soon as possible after mixing to gain full benefit, and keeping mortar flow uninterrupted.
 - **Curing:** Curing the exposed surface of the grout as soon as the surface is dry, avoiding the rapid loss of water causing cracking and reducing the quality of the mortars.
 - **Cleaning:** Use clean water to clean tools immediately after application. When the product is solidified, it can only be cleaned by mechanical methods.
 - **Safety information:**
 - The product does not contain toxic substances, safe to use with construction safety principles. For example, use gloves, safety glasses, ...
 - Avoid contact with food and utensils, avoid prolonged contact with skin. In case of contamination, wash thoroughly with water. If splashed into eyes or mouth, wash thoroughly with clean water and seek medical assistance immediately.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Density	kg/liter	1.6 – 2.0	
Water dosage	%	13 – 15	(3,25 – 3,75 liter/25kg)
Initial setting time	Hours	≥ 4	
Final setting time	Hours	7 - 9	
Compressive strength	1 day	≥ 25N/mm ²	ASTM C349/C109
	3 days	≥ 40N/mm ²	ASTM C349/C109
	7 days	≥ 50N/mm ²	ASTM C349/C109
	28 days	≥ 60N/mm ²	ASTM C349/C109
Fluidity	cm	24 - 31	ASTM C230-90
Thickness of application layer	mm	Min 5	
Application temperature	°C	10 - 40	

**Specifications are based on laboratory conditions (23°C ± 2 and 60% RH) and are subject to change under actual application conditions. In order to determine specifications under specific conditions, preliminary conformance tests should be performed under actual construction conditions.*

PRODUCT CHARACTERISTICS:

Form	Powder
Packaging	25 Kg/bag.
Storage	Store in a cool, dry place at a temperature of 10-30°C, covered and ventilated.
Life time	08 months from manufacture date if stored properly in unopened original packaging.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

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