

MC-Grout 108

High performance cementitious grout specifically designed for wind turbines.

PRODUCT PROPERTIES:

- High early compressive strength even at low temperatures.
- High fluidity and good workability.
- Does not segregate or bleed water, ensuring uniform final physical performance and preventing pump clogging.
- Provides good adhesion to concrete surfaces.
- Maintains shrinkage compensation after casting.
- Ready to use – Just mix with water.
- Suitable for pumping.
- Free from chlorides and other corrosive components.
- Adjacent steel areas are permanently protected against corrosion.

AREAS OF APPLICATION:

- **MC-Grout 108** is supplied as a dry ready-to-use powder. The addition of the correct quantity of clean water will produce a grout with the correct flowability. The low water requirement ensures high early strength and long-term durability.
- The product is suitable for joint depths ranging from 10 to 150 mm below onshore wind turbine foundations.
- The product is suitable for work requiring early loading such as machine base columns, prestressed beams, bridge bearings, cavities, openings, recesses and high strength repairs.

APPLICATION NOTES:

- **MC-Grout 108** is used to prevent normal shrinkage of mortar and concrete. **MC-Grout 108** contains selected and pre-mixed aggregates to produce a homogeneous, stable and water-free mixture. Consumption: 74 – 75 bags per 1m³ of grout (depending on the water content of the mortar).
- **Substrate preparation:** Concrete surfaces should be clean, sound and free from oil, grease, laitance, and loose particles. Metal should be free from scale, rust, oil and grease. Absorbent substrates must be saturated thoroughly, but there is no standing water.
- **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:**
 - **MC Grout 108** does not contain any hazardous substances.
 - It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

- Avoid contact with foodstuffs and utensils.
- Avoid prolonged skin contact. In the event of contamination, wash thoroughly with water.
- If the eyes or mouth are affected, wash with clean water and obtain medical attention immediately.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Product Type		Grouting	
Particle size	mm	0 – 4.75	
Mortar pouring height	mm	20 – 150	
Fluidity	mm	240 ± 20	At 10% water
Water dosage	Liters %	2.375 – 2.75 9.5 – 11	Each bag 25 kg.
PH		11 – 13.5	When mixed with water (Ready to pour)
Compressive strength	N/mm ²	~60	24 hours according to BS EN 196 (40 mm cube)
	N/mm ²	~90	07 days according to BS EN 196 (40 mm cube)
	N/mm ²	~110	28 days according to BS EN 196 (40 mm cube)
Total wet density	Kg/m ³	2,200	@ water ratio 10%

**All technical values were determined in the laboratory, at 27°C and 65% relative humidity.*

PRODUCT CHARACTERISTICS:

Product classification	Self-flowing, non-shrink grout.
Form	Grey powder.
Shelf-life	8 months from manufacturing date if stored properly in original unopened packaging. Avoid rain, direct sunlight, high temperature and frost.
Packaging	25 kg/bag.
Disposal	Empty packaging completely before disposal to protect the Environment.

Safety Advice: Please note the safety information and advice given on the packaging label, safety data sheet and General Application Advice.

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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