

MC-Grout WT 90

High performance cementitious grout specifically designed for wind turbines.

PRODUCT PROPERTIES:

- High early compressive strengths even at low temperatures.
- Good fluidity and workability retention.
- No segregation or bleeding to ensure consistent final physical performance and to prevent pump blockages.
- Provide better bonding with the concrete substrate.
- Provide shrinkage compensation after casting.
- Free from harmful chlorides and other aggressive constituents.
- Adjacent steel areas are permanently protected against corrosion.
- Ready to use – Simply mix with water.
- Suitable for pumping.

AREAS OF APPLICATION:

- **MC-Grout WT 90** is used to counteract the normal shrinkage of mortar and concrete.
- Suitable for gap depths in the range of 10 to 150 mm beneath on-shore wind turbine foundations.
- Suitable for work that requires early load such as machine base structural columns, prestressed girders, bridge bearings, cavities, gaps, recesses, and high-strength repair.

APPLICATION NOTES:

- **MC-Grout WT 90** is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a free-flowing precision grout. The low water requirement ensures high early strength and long-term durability.
- **MC-Grout WT 90** has selected and pre-mixed aggregates to produce a homogeneous, stable, and water-free mixture. **Consumption:** 74 – 75 bags for 1m³ mortar (depending on the water amount in 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, dust, oil and grease. Absorbent substrates must be saturated thoroughly, without 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 WT 90** 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
Grain size	mm	0 – 3	
Grouting height	mm	20 – 150	
Flow	mm	260 ± 20	At 13% of water
Added water	Liter	3.0 – 3.5	Per 25kg bag
	%	12 – 14	
PH		11 – 13.5	When mixed with water (Ready to pour)
Compressive strength	N/mm ²	> 45	01 day as per BS EN 196 (40 mm cube)
	N/mm ²	> 80	07 days as per BS EN 196 (40 mm cube)
	N/mm ²	> 90	28 days as per BS EN 196 (40 mm cube)
Wet gross density	Kg/m ³	2,200	@ 12% water ratio

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

PRODUCT CHARACTERISTICS:

Type of Product	Free flow, non-shrink grout mortar.
Form	Grey powder.
Shelf Life	08 months from date of manufacture if stored in unopened packaging. Protect from rain, direct sunlight, heat and frost.
Delivery	25 kg/bag.
Disposal	Empty packs completely and dispose off carefully to protect our Environment.

Safety Advice: Please Take notice of the safety information and advice given on the packaging labels, safety information sheets 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.

Edition **04/2026**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.