

# MC-Grout 80

Cementitious non-shrinking grout with high strength.

## PRODUCT PROPERTIES:

- Can make excellent flowability for pumping grout.
- Increase expansion with good dimensional stability.
- High early compressive strength, allows earlier loading.
- Ready and easy to use.

## AREAS OF APPLICATION:

- Sealing cracks, and structure joints.
- Suitable for work that requires early load such as machine base structural columns, prestressed girders, bridge bearings, cavities, gaps, recesses, and high-strength repair.
- Waterproofing and stabilizing works, tunnels and underground constructions.

## APPLICATION NOTES:

- **MC-Grout 80** is used to counteract the normal shrinkage of mortar and concrete. **MC-Grout 80** has selected and pre-mixed aggregates to produce a homogeneous, stable, and water-free mixture. Consumption: 74 – 76 bags for 1m<sup>3</sup> 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, rust, oil and grease. Absorbent substrates must be saturated thoroughly, but 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 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               |
|--------------------------------|----------|------------------------|------------------------|
| Density                        | kg/liter | 1.6 – 2.0              |                        |
| Water dosage                   | %        | 12 – 14                | (3,00 – 3,50 lít/25kg) |
| Initial setting time           | Hours    | ≥ 4                    |                        |
| Final setting time             | Hours    | 7 - 9                  |                        |
| Compressive strength           | 1 day    | ≥ 30 N/mm <sup>2</sup> | ASTM C349/C109         |
|                                | 3 days   | ≥ 40 N/mm <sup>2</sup> | ASTM C349/C109         |
|                                | 7 days   | ≥ 60 N/mm <sup>2</sup> | ASTM C349/C109         |
|                                | 28 days  | ≥ 80 N/mm <sup>2</sup> | 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                                                                             |
| Storage   | Store in a cool, dry place at a temperature of 10-30°C, covered and ventilated.   |
| Life time | 8 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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