

# CHEMfix 309<sub>MC</sub>

Ready to use non-shrink, cementitious micro concrete

**CHEMfix 309 MC** is factory designed pourable, non shrink, repair concrete with selected cement, aggregate and other chemicals. Recommended water and coarse aggregate to be added at site as per requirement.

## ADVANTAGES

- A properly designed concrete which can be pumped or poured into restricted
- Placement without any vibration.
- Expansion system compensates for shrinkage settlement in plastic stage.
- Easy to mix and apply, high flow characteristic, rapid strength development, good bond with old concrete .
- Contains no added chloride .

## Uses

**CHEMfix 309 MC** is mainly recommended for the repair of damaged concrete structures e.g. ,,

- Columns
- Beams
- Floors
- Slabs, etc.
- It is also recommended for grouting of large gaps.

## Storage Conditions / Shelf-Life

6 months from date of production if stored properly in undamaged and unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +40°C. Protect from moisture, direct sunlight and frost.

## System Information

### Application Details

## Consumption

2000 kg of powder/ cubic meter of concrete

## TECHNICAL INFORMATION

**Appearance:** Colour Grey powder

Bulk Density 1.2 kg/l (of fresh mortar) at 27 °C  
pH Value 11 - 13.5 when mixed with water (ready to pour).

### Mechanical / Physical Properties

**Compressive Strength** (According to ASTM C 1107 -99)

1 day > 25

3 days >35

7 days >45

28 days >65

**Flexural Strength**(According to ASTM C 293 – 79)

7 days >4.0

28 days >5.0

**Tensile Strength** (According to ASTM D 412 – 87)

7 days >2.0

28 days >3.0

### Note

The above mentioned values are based on concrete produced by mixing **CHEMfix 309 MC** and 10mm down aggregate in proportion of 2:1 (by weight).



## Productiveness

1 bag yields approximately 13.5 liters of mortar.

## Substrate Preparation

All concrete surfaces should be clean, sound and free from loose particles, oil, grease, etc. Metal surfaces should be scale, rust, oil and grease.

## Application Instructions

### Mixing Time

CHEMfix 309 MC can be mixed both in paddle type and slow speed grouting mixture or drum type concrete mixer. In both the cases the powder CHEMfix 309 MC is to be added to water and mix till a pourable consistency is obtained with recommended water – powder ratio as per technical data.

Do not mix more Microcrete that can be used within 15 minutes. DO NOT ADD ANY EXTRA WATER. For field mixing CHEMfix technical department may be consulted.

## Application Method/ Tools

Pour the CHEMfix 309 MC after mixing into the area to be covered /filled.

During filling if required, ensure proper air displacement.

Cleaning of Tools Clean all tools and application equipment with water immediately after use.

Hardened / cured material can only be removed mechanically.

## Notes on Application / Limitations

When ready to pour CHEMfix 309 MC is workable for 20-25 minutes after mixing at +30°C).

Value Base All technical data stated in this Product Data Sheet are based on laboratory tests.

Actual measured data may vary due to circumstances beyond our control.

## Health and Safety

### Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data .

## Packing

25 kg bags.



The information and recommendations above are given in good faith based on our current knowledge and experience of the products when properly stored, handled and applied in accordance with current best practice, national standards and our recommendations. As we have no control over site conditions or methods of application, no liability can be derived from the contents of this information sheet, or from any written recommendations, or from any other advice offered. The user of the product is solely responsible for the product's suitability for the intended application and is recommended to test the suitability prior to use. We reserve the right to change the properties of our products without notice. All orders are sold subject to our current terms of sale and delivery. With the publication of this Technical Information Sheet all previous editions are no longer valid.