

SINGLE COMPONENT FREE FLOWING SHRINKAGE COMPENSATED LOW ALKALI MICRO CONCRETE

DESCRIPTION

Conpatch MC is a high strength, free flowing, shrinkage compensated concrete with low alkali content. The product is manufactured using especially selected cement, aggregates, fillers & polymers to provide a stable, free flowing micro concrete with controlled expansion both in wet & hardened states. It exhibits excellent thermal compatibility with concrete. Low water contents ensure a dense, durable & high strength material is achieved.

USES & ADVANTAGES

Conpatch MC's fluid properties ensures compaction and vibration are not required, its density provides excellent chloride and carbon dioxide resistance & reduces the incidence of alkali - silica reaction and sulphate attack.

Uses as a result of these properties include:-

- Pile cap repair.
- Repair of large sections including marine structures, bridges and beams etc.
- Difficult access locations where hand application is not feasible.
- As a repair material where cathodic protection is used.
- In applications where poured under pressure.
- Filling voids/sections up to 250 mm (consult Cormix for deep sections).

Advantages include:-

- Excellent bond to concrete.
- Can pump or pour.
- Self compacting, no vibration eliminates honey combing.
- High early & final strengths.
- Shrinkage compensated both wet & hardened state.
- Low permeability provides excellent protection against chloride & carbon dioxide.
- Low alkali content.

PROPERTIES

Appearance:	Grey Powder
Compressive Strength: (BS 6319)	≥ 30 N/mm ² at 1 day ≥ 50 N/mm ² at 3 days ≥ 65 N/mm ² at 28 days
Flow Properties:	J-rote 8-10 seconds
Drying Shrinkage: (ASTM C596-82)	<450 microstrain at 7 days <500 microstrain at 28 days
Water Absorption: (BS 1881 pt.5: 1970)	10 mins 0.018 ml/m ² /sec. 2 hours 0.001 ml/m ² /sec.
Wet Density:	Approx. 2220 kg/m ³ depending on consistency used

Max. Chloride in Mix: <0.1% by weight of cement

Max. Sulphate in Mix

as SO₃: <3.5% by weight of cement

Rapid Chloride Permeability: <650 coulombs (ASTM C1202)

SURFACE PREPARATION

Surfaces to be repaired should be sound, clean with all contaminants such as oil, grease, dirt, paint, mould oil, curing compounds etc. removed.

Formwork should be rigid & sealed. Drain outlets should be installed to allow drainage of water after soaking under soffits air vents should also be incorporated. Edges should be sawn out to right angles with no feather edges. Corroded steel should be exposed fully including the back. Rebar should be grit blasted or water blasted to remove rust & chlorides if present.

Rebar Priming: After cleaning rebar it should be primed with Congard Zinc or Congard ST depending on the surface condition.

Substrate Priming: Several hours before placing **Conpatch MC** the whole surface should be saturated with water by filling the prepared formwork with clean water. All excess water must be removed before applying **Conpatch MC**.

MIXING

Mix using a forced action mixer or heavy duty slow speed drill (400-500 rpm) with spiral paddle. Never mix part bags. Add powder to water and mix for 3-4 minutes until a smooth homogenous consistency is achieved.

The water content should be between 3.75-4.00 litre per 25 kg bag. Place all the mixed material within 30 minutes of mixing do not rework material by adding more water. If weather conditions are very hot use chilled water.

No vibration is required when placing. Cure **Conpatch MC** exposed surfaces immediately & stripped surfaces with Corcure. In rapid drying conditions exposed surfaces may be cured with polyethene sheet taped down at edges.

Where the surface is to receive a coating or render use **Corcure 75** or **Corcure 200** which are specifically manufactured to receive finishes.

PACKAGING

25 kg. 4 Ply plastic lined bags.

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STORAGE CONDITIONS & SHELF LIFE

Store in unopened bags in dry shaded conditions. The shelf life is 9-12 months when stored correctly if stored in high humidity the shelf life may reduce to 4-6 months. High temperatures and humidity may reduce shelf life.

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn. Wash off material from skin with fresh water on contact. If in contact with eyes rinse with plenty of clean water & seek medical attention. If swallowed do not induce vomiting seek medical attention immediately.

TECHNICAL SERVICE

The Cormix International Limited Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001 : 2008 verified by TUV Nord.

CONTACT DETAILS

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