

HIGHSEAL MICROCONCRETE Concentrate

DESCRIPTION

HIGHSEAL MICROCONCRETE Concentrate is a shrinkage compensated concrete repair material or grout which dependant of level of water addition gives a plastic mortar or a free flowing material free from bleeding and segregation only needs the addition of suitable aggregate. Suitable aggregates are quartz, granite, copper slag, do not use limestone. Minimum thickness of application 12mm.

ADVANTAGES

- Extremely Low Permeability.
- Very High Strength.
- Mortar or Free Flowing Consistency.
- Durable.
- Shrinkage Compensated.
- Self Compacting at Flowing Consistency.

TECHNICAL INFORMATION

Compressive Strength BS1881 Pt 116 Actual Strength Dependant on Water Addition	Min >45 N/mm ² @ 7 days Flowable consistency Min >65 N/mm ² @ 28 days Flowable consistency
Water Penetration	>30% better than low permeability concrete
Resistivity	1000 Ω
Yield	Approx. 19 ltr per 25kg bag dependant on water addition including aggregate
Water Addition	Plastic Mortar 3.0 – 3.4 ltr per 25kg Flowable 3.5 – 3.75 ltr per 25kg
VOC Content	Nil

TYPICAL APPLICATIONS

Pile Head repairs.
Repairs to Columns, beams, floors etc.
Honeycombed concrete.
Precast jointing .
Bridge Bearing Mortar.

DIRECTIONS FOR USE

Preparation

Concrete surfaces to which the material is to be applied should be free of dust, oil, curing compounds or other material which could affect adhesion. All defective concrete must be cut back and a 20mm deep saw cut should be made around repairs, feather edging must be avoided.

If primers are not to be used the area should be soaked for several hours prior to application to prevent suction of water from the HIGHSEAL MICROCONCRETE Concentrate. Apply only to concrete in saturated surface dry condition.

PRIMING

FOR CONCRETE - The use of HIGHSEAL 200 is recommended.

PREPARATION OF STEEL

Expose fully any corroded steel in the repair area and remove all loose scale and corrosion deposits. Steel should be cleaned to a bright condition with particular emphasis to the back of exposed bars. Grit-blasting is recommended for this process.

Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water immediately following grit-blasting, to remove corrosion products from pits and imperfections within its surface.

MIXING

It is essential that a mechanical mixer is used to maximise the free flowing and shrinkage compensation properties of the product. Product should be placed within 10 minutes of mixing to ensure maximum flow. For plastic mortar hand mixing is permissible.

Maximum water addition permitted for maximum strength is 3.8 litres per 25kg of product.

Iced cool water must be used and the temperature of the mixed product should not exceed 32°C.

Mix 25kg of concentrate with 12.5kg of 2 – 5mm aggregate.

CURING

As with all concrete products good curing is needed for minimum 7 days. Water flooding and polythene sheet cover on horizontal and pile head repairs, on vertical repairs wet hessian and polythene taped to surface.

CLEANING

Treat as per concrete.

STORAGE

Store out of sunlight, clear of the ground on pallets, dry conditions for maximum 12 months.

HEALTH AND SAFETY

This product contains cement, and contact with skin may cause irritation. It should not be inhaled, and a properly designed and maintained face mask should be used whilst handling, pouring and mixing the powder. Avoid contact with the product by working carefully, using a barrier cream and wearing protective gloves. If any contact does occur, wash thoroughly with soap and water. Use eye protection. Avoid contact with eyes, if such contact occurs irrigate with water for 20 minutes and seek medical advice.

If mistakenly ingested, drink plenty of clean water and seek medical advice.

TECHNICAL SERVICE

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

DISCLAIMER

To the best of our knowledge and belief, this information is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that he has consulted our latest literature.