

NS Microconcrete

Free Flowing, Non-shrink Cementitious Microconcrete

Description

NS Microconcrete is a dry ready mix cementitious based composition formulated mainly for used in repairs works when the concrete is damaged, and the area is restricted in movement due to which there is problem in placing concrete. It is combination of cement, high quality graded fine aggregate, shrinkage compensating agents and dispersion agents. It gives high-strength and designed for precision grouting and general construction applications.

Features / Advantages

- Develops high initial and ultimate final strengths
- Makes repaired sections highly durable
- It has excellent flowability, workability
- Rapid strength gain to facilitate early reinstatement
- Can be used as a pumpable or pourable repair concrete where access is restricted
- Repair of damaged concrete structures e.g., Columns, Beams, Slabs, etc.
- Easy to mix and apply
- High flow characteristic
- High strengths with low permeability
- Good bond with old concrete
- Contains no added chloride.

Typical Application

- Repair of damaged reinforced concrete elements like beams, columns, wall, etc. where access is restricted, and compaction is not possible.
- For Jacketing of RCC columns to increase load-taking capacity (strengthening of a vertical members)

Technical Analysis (Conforms To ASTM C 109, & Internal Test Method)

Technical Information

Sr. No.	Properties	Specification
1	Colour	Grey dry powder
2	Consistency	10 – 15 %
3	Flow At 0 Minute	200 – 250 mm
4	Flow At 20 Minute	150 – 200 mm
5	Setting Time	< 10 Hours
6	Bleeding	NO BLEEDING OR FOAM ON TOP
7	Compression Strength	
	(After 1 Days)	> 20.0 Mpa
	(After 7 Days)	> 35.0 Mpa
	(After 14 Days)	> 45.0 Mpa
	(After 28 Days)	> 60.0 Mpa

Methods of Application

Substrate/Surface Preparation

- Clean loose particles, dirt, grease, and traces of foreign materials from the surface, if necessary, by using wire brush/sandpaper or by chipping.
- Make sure the surface temperature and ambient temperature of grouted area should be between < 50C and > 40C. MIXING
- Take approx. 100-150 ml of clean water for 1 Kg of NS Microconcrete in a clean bucket. It is very important that add material into water and not vice versa.
- Stir continuously for 3-5 minutes by using mechanical stirrer or by hand till a pourable consistency is obtained with recommended water –powder ratio.

Application

- Cure the surface with water before application.
- Pour the Micro Concrete after mixing into the area to be covered /filled/watertight shuttering.
- During filling if required, ensure proper air displacement.
- Cure the repaired concrete for minimum 7 days before removing the shuttering.
- Thickness should be in between minimum of 25 mm to maximum 100 mm. This will prevent the formation of any cracks after healing.
- Used of gravels (5 to 12 mm) is recommended for bigger depth.

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Curing

- Curing is necessary to optimize the physical properties of concrete and to reduce the shrinkage. Continuous moist treatment for a minimum period of 7 days.
- Alternatively, moist cure for a minimum period of 24 hours and apply a curing compound complying with standard.
- Curing is particularly critical in rapid moisture loss conditions such as high temperatures, high winds, and low humidity.

Usage Precautions

- Do not add more water than recommended.
- Applicable for ceramic tiles only.
- Maximum thickness should not more than 3 mm.
- Do not used on gypsum plaster surface, paint, wood and metal.



Packing

25 kg



Consumption

Each 25 kg bag yields approx. 12 liters when mixed with 3.625 liters of water. The coverage figures given are theoretical - due to wastage factors and the nature and variety of possible substrates, practical coverage may vary.



Cleaning of Tools & Equipments

NS Microconcrete should be removed from the tools at the earliest before it hardens, by cleaning with water.



Storage and Shelf life

- Store in cool, dry, and well-ventilated place away from heat source or direct sunlight.
- Keep away from water and damp area.
- Avoid using partially used material; open bags with partially used material should be kept in a bag with its mouth tied tightly with string to prevent lump formation.
- As temperature, humidity, water addition and other parameters vary from site to site; the above information should be treated as general guidelines.
- Shelf life is 12 months.

Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn.

If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately. Do not induce vomiting.

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Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

Mahafix

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