

K2 MICRO CONCRETE

General Purpose Non – Shrink High Strength Cementations Micro Concrete

Description:

MICRO CONCRETE is a ready to use product. Requires only the addition of water to produce a high strength, non-shrink Micro Concrete. It imparts controlled expansion characteristics in the plastic stage. It minimizes water demand, which ensures high early strength and long term durability.

Area of Application:

- Repair of spalled or damaged concrete, precast floors and roads.
- Also as a render where durability or increased weather resistance is required.

Benefits:

- Shrinkage compensated.
- Formulated for deep section grouting.
- Pre packed factory controlled to overcome site batched variations.
- Excellent workability retention even at high ambient temperature.
- High bond strength to steel & concrete.
- Early strength development even at fluid consistency.
- Good fatigue and impact resistance.

Technical Properties:

PROPERTIES	RESULTS	
Water : Powder ratio	0.18 (@ 30°C)	
Yield	13 ltr (approx. for 25 kg bag)	
Density	2118 kg/m ³	
Compressive Strength	Age	Compressive Strength
	1	15 N/mm ²
	3	35 N/mm ²
	7	43 N/mm ²
	28	55 N/mm ²

Application Instruction:

SURFACE PREPARATION

- The Defective concrete surface should be cut back to a sound base.
- Smooth surface should be mechanically roughed.
- Corroded reinforcement should be exposed around its full circumference and remove all loose scale and corrosion deposits.

MIXING PROCESS

- Mix 25 Kg of MICRO CONCRETE with 4.5 Liter of clean water.
- For larger repairs, MICRO CONCRETE can be modified by the addition of 10mm clean,

graded, saturated, surface dry aggregates at site.

- The addition of graded aggregate (where specified) should be added after the water and should be properly mixed.

PLACING

- The mixed material should be placed immediately.
- If placed by pump, standard concrete pumping should be followed.

Curing:

Curing should start within 24 hours and minimum curing time should be same as that for concrete (7 days) as a Cementitious material.

Low Temperature:

In cold conditions down to 15°C, the use of warm water (up to 30°C) is advisable to accelerate strength development.

Packing:

K2 MICRO CONCRETE is available in 25 kg bag.

Shelf Life and Storage:

K2 MICRO CONCRETE has a shelf life of 6 months from the date of manufacture when kept at a temperature between 5°C to 45°C and store in the original, unopened bags.

Important Note:

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FIRE:

K2 MICRO CONCRETE is flammable and nontoxic. Using K2 MICRO CONCRETE near flame or smoking during use should be avoided.

Technical Support:

The company provides a technical service supported by the team of specialist applicators in the industry.