



DESCRIPTION

Secure Bond - Micro Concrete is a blend of Portland cement, graded fillers and chemical additives which help achieve high early strength at low water cement ratio. The graded fillers are designed to assist uniform mixing and produce a free flowing material which can go into 2-3 mm crevice.

Secure Bond - Micro Concrete is used for repairing the cracks of the beams and columns, Spalling of concrete during the de-shuttering and to repair the old structures.

ADVANTAGES

- Very high early strength
- Very low particle size thus good penetration
- Crackles smooth finish

INSTRUCTIONS FOR USE

Surface Preparation

The substrate surface must be free from oil, grease or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base.

Mixing

Mix manually or mechanically a 25 Kg bag of Micro Concrete with 4 to 4.5 ltrs. of clean cool water until a homogenous paste is obtained. Let the mix rest for a few minutes. For best results a mechanically powered mixer to be used. When quantities upto 50 kg are used, a heavy duty slow speed drill (400-450 rpm) fitted with a paddle is suitable.

APPLICATION

For best results place the micro concrete within 30 minutes of mixing to gain full benefit of the penetration process. Larger quantities will require a heavy duty mixer. For large pours the micro concrete may be hand placed or pumped into a removable hopper. Pouring should be from one side of the void to eliminate any air or pre-soaked water becoming trapped. It is advisable to pour the micro concrete across the shortest distance of travel.

SECURE BOND MICRO CONCRETE

For filling the cracks in the slabs the above method is more ideal, in case of repairing the spalled structure a jacket to be provided with de-shuttering facilities. Area to be repaired should be clean and dampened properly. Fill the micro concrete on the prepared area allow it to cure for 24 Hrs and then de-shutter.

CURING

After 24 hours of application, exposed areas should be thoroughly cured. This should be done by the use of continuous application of water and/or wet hessian.

PROPERTIES & SPECIFICATION

Appearance	: Grey granular powder
Pot life	: 45 Mins. @ 30°C
Setting time	: 24 hours at 30°C
Compressive strength in 3 days	: 12 to 15 N/mm ²
Yield per bag	: 12.5 – 13.5 ltr.

UNLOADING & STORAGE

Do not use hook for unloading or shifting of bags. Material shall be unloaded on uniform level surface platform above ground level with proper stacking in countable manner. It shall be stored in covered dry place. Keep the bags in original sealed form & used the open bags immediately. In case of rainy season it shall be covered by tarpaulin/polythene sheet to protect the bags from dampness/humidity from the atmosphere.

SHELF LIFE

It has a shelf life of 6 months from the date of manufacturing, if properly stored in its original bags as per the storage conditions specified.

PACKING

25 Kgs bag or pack size of client's choice for bulk orders.

HEALTH & SAFETY PROCEDURES

Secure Bond - Micro Concrete is non-toxic & non-flammable. Avoid inhalation of dust during mixing. Wear safety glasses, dust mask & gloves. In case of eye contact, rinse immediately with plenty of clean water.

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