



PRODUCT DATA SHEET (PDS)

Micro Milling Concrete Mix

Manufacturer:

MICRO MILLING LIMITED
 Claxton Bay P.O. Box 4235,
 Plaisance Park Industrial Estate,
 Pointe-a-Pierre,
 Trinidad & Tobago, W.I.
 Telephone #: 1(868) 659-4060
 Website: www.micromillingtt.com

Product Definition

Micro Milling Concrete Mix is a ready to use blend of Portland cement, sand and fine aggregates. It is a factory produced blend of materials that have been sieved, measured and premixed to provide maximum strength, portability and ease of use for completing a wide range of residential, commercial and industrial projects.

Range of Applications

Micro Milling Concrete Mix is ideal for many everyday projects including the repair of structural concrete, casting driveways, walkways and steps, setting posts and anchoring poles. It can also be used to provide a new concrete base that when cured provides a surface capable of receiving a wide array of final floor finishes including porcelain and ceramic tile, stone and terrazzo.

Specific uses of Micro Milling Concrete Mix include:

- Sectional repairs to structural concrete and damaged floors;
- Anchoring poles and setting fencing posts;
- Casting driveways, walkways, ramps and steps;
- Repairing small quantities of structural concrete removed during renovations or installation of utilities in residential and commercial buildings;
- Casting new floor sections, foundations and footings.

Features & Technical Data

Pour Depth (min)	2" (51mm)
Foot traffic	24 hrs
Water Requirement (50 lb./22.7 kg. bag)	3 US Qts. / 2.84 ltrs.
Compressive Strength 7 day cure	3000 psi
Compressive Strength 28 day cure	4000 psi

Coverage (Approx.)

One 50 lb./22.7 kg. bag will yield approximately 0.375 cubic ft. of cured concrete.

Advantages

Micro Milling’s Concrete mix provides a pre-packaged, portable, easily manageable alternative to the traditional building methods requiring the delivery of large, unsealed quantities of different material components to be combined and mixed onsite to produce construction grade concrete.

Our concrete mix product provides the following advantages:

1. Measured proportions of cement and aggregates ensure consistent product strength and integrity
2. Very ideal for minor repair/improvement projects;
3. Easily carried (portability) and easily managed;
4. Easier onsite storage (in enclosed and covered areas);
5. Efficient alternative to onsite mixing- less wastage and associated material loss on completing projects.
6. Does not require curing compounds
7. Easier to use for minor concrete repairs in high rise buildings and confined areas;
8. Shortens job times – just add water and mix.
9. When cured can receive most types of commercial floor finishes.
10. Ensures easier clean up and compliance with building occupational, safety and health requirements;
11. Exact cubic yield per bag eliminates the need for guesswork on projects (easier for novices and DIY’ers)

Precautions & Preparation

- Do not use over unstable substrates such as gypsum, fibreboard, particle board, lauan plywood, compressed board, asbestos or chip board. If possible, these materials should be removed prior to commencing projects as these can rot, mildew and/or compromise long term performance of the concrete;
- Smooth or slicked concrete base surfaces should be roughened via chipping, mechanical scribing or etching to achieve maximum bond;
- The perimeter of the area due for new concrete installations or repair should be squared off;
- If steel reinforcing bars are exposed, clean to bare metal before casting;
- Remove all loose materials or debris which can impede proper bonding.
- Concrete surfaces receiving fresh concrete may be first primed with an appropriate poly vinyl acetate concrete binder to improve the adhesion between the older and new concrete.

Directions

1. Empty contents into a mechanical mixer, wheelbarrow or onto a smooth non porous surface.
2. Open a crater in the middle of the dry mix and add clean potable water, approximately 3 US Quarts (approx. 2.84 litres) per 50 lbs./22.7 kgs. bag
3. Mix thoroughly until a workable consistency is achieved. Projects requiring multiple bags may be mixed much easier in a mechanical concrete mixer (ransom)
4. Avoid an overly wet, soupy mix. Excess water can reduce strength, durability and cause cracking or dusting.

Curing

- Micro Milling Concrete Mix is designed to meet normal curing parameters of 28 days before full strength is achieved.
- Proper curing means maintaining adequate moisture and temperature
- Occasional wetting of the concrete while curing is encouraged, especially in tropical conditions.

- Using plastic sheeting over curing concrete can assist in maintaining adequate moisture and reducing the rate of drying, however continue to moisten the surface to encourage curing and prevent hairline cracks.
- Avoid foot traffic for at least 24 hours and vehicular traffic for 72 hours after.
- Do not expose fresh concrete to heavy rolling dynamic loads, such as forklifts or scissor-lifts for at least 7 days after installation.

Expansion & Control Joints

- Do not cover existing expansion joints or control joints
- Expansion and control joints should extend from the subfloor up through the newly poured floor and any subsequent tile or other floor covering.
- These joints should then be filled with an appropriate elastomeric sealant or silicone

Packaging

Micro Milling Concrete Mix is packaged in 50 lbs.(22.7 kgs) bags.
72 bags per pallet

Color

Grey

Cleaning

Clean tools with soapy water before materials dry.

Maintenance

None to minimal.

Concrete exposed to normal weather conditions may have to be periodically cleaned to remove moss, mildew or surface stains.

Storage

Micro Milling Concrete Mix should be stored on pallets in original, closed packages in a dry and cool place, and should not be exposed to water and damp prior to use.

Shelf Life

Twelve (12) months from the date of manufacture in properly stored, unopened bags.

Safety Data

Corrosive. During mixing or application avoid contact with eyes and skin. In case of contact with eyes rinse repeatedly with water and call a physician. Wash thoroughly after handling. May be harmful if swallowed.

Contains free silica. Do not breathe dust. Use personal protective equipment (respirator, gloves, goggles and boots) when handling or using this product.

Use appropriate bending and lifting techniques when handling unopened bags.

Note: Before commencing work, read the information provided on the packaging and the product SDS available at the Concrete Mix product page on our website www.micromillingtt.com for the safe and proper use of this product.

Always keep product out of the reach of the children.

Warranty

Micro Milling Limited assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees and/or users assume all risks associated with the use of the material.

Further, the manufacturer warrants that this product shall be of saleable quality when used and applied in accordance with the stated instructions. This product is not warranted as suited for any purpose other than the general purpose for which it is intended.

Manufacturers' Caution

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of our Concrete Mix product under normal environmental and working conditions.

Because each project is different Micro Milling Limited cannot be responsible for the consequences of variations in such conditions or for unforeseen factors.

Disclaimer

Micro Milling Limited is not responsible for workmanship not in accordance with its instructions and NTCA/ISO guidelines.

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