



PRODUCT DATA SHEET (PDS)

Micro Milling Plaster Mix

Manufacturer:

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Product Definition

Micro Milling Plaster Mix is a factory prepared, ready to use blend of Portland cement, sand and special additives. It is formulated to provide maximum strength, ease of use and portability for completing a wide range of residential, commercial and industrial building projects.

Range of Applications

Micro Milling Plaster Mix is ideal for the laying and plastering of blocks and bricks in the construction of walls and columns, planters, decorative facades, accent walls and perimeter walls.

It is suitable for use in above and below grade building projects, patching damaged mortar sections and as a finishing coat in exterior and interior projects. It can also be used as a scratch coat or brown coat base to receive ceramic tile, porcelain tile, natural stone and other decorative finishes.

Uses include:

- Plastering new walls;
- Laying and bedding blocks and bricks in place for regular walls,
- Laying brick and stonework in load-bearing foundational walls and columns;
- Repairing damaged mortar on plastered wall surfaces;
- Replacing small sections of walls removed during the installation of power, water, telephone or other utility lines.

Product Features

Our Plaster mix is designed with the following product features:

- Special additives in our formulation helps improve adhesion and tensile strength;
- Fibres provide tensile reinforcement, increased pliability and reduce tendency for shrinkage and hairline cracks;
- Additives impart a smoother texture and enable easier mixing and trowelling.
- Stringent factory controls ensure consistent ratios of sand/cement in each bag;

Product Benefits

Micro Milling's Plaster Mix provides a prepackaged, portable, easily manageable alternative to the conventional approach of supplying construction grade plaster for building new constructs and renovations to existing buildings. Ideal for laying brick, blocks and plastering, our Plaster Mix provides an alternative to traditional methods which require unsealed quantities of sand and cement to be delivered and mixed onsite.

Simply adding water in the stated amounts to our dry mix blend will yield a high quality, construction grade mortar.

Advantages

- Measured, consistent product quality;
- Ideal for smaller repairs and improvement projects;
- Easier portability;
- Easier storage in enclosed and covered areas;
- Easier to remove residual materials onsite after project completion;
- Improves accuracy of material estimates preventing excessive waste;
- When cured can receive most types of commercial finishes including ceramic and porcelain tile, stone and mosaic type finishes;
- Packaged format prevents excessive onsite material residue on project completion;
- Helps to limit dust on projects where particulate matter is of particular concern – re: airconditioned buildings, high rise apartments and condominiums;
- Easier compliance with project occupational, safety and health (OSHA) requirements for contractors and builders.

Preparation

- In plastering newly constructed walls, the surfaces should be free of any loose materials and dust.
- Older walls should be free of grease, waxes, paint, oils and any loose materials that can impede proper long-term bonding.

Precautions

1. Do not use over unstable substrates such as gypsum, fibreboard, particle board, regular plywood; compressed board, asbestos or chip board. If possible, these materials should be removed prior to commencing projects as these can rot, mildew or compromise long term performance of the overlying plaster;
2. Ensure area where work is to be done is well ventilated and proper PPE is worn by users;
3. Use only clean mixing containers and tools;
4. Add only clean potable water to dry Plaster Mix blend. Note the recommended amount per bag- Approximately 5.3 US Quarts (5 litres) per 50 lb./22.7 kg. bag.

Mixing

- Empty contents into a wheelbarrow or a smooth nonporous surface (mortar board).
- Open a crater in the middle of the dry mix and add clean potable water,
- Add water gradually, mixing thoroughly until a workable consistency is achieved;
- Avoid an overly wet, soupy mix. Excess water can reduce strength, durability, extend setting times, creates difficulty to use in most applications and cause cracking or dusting when dried;
- After mixing, additional water may be added sparingly ONLY if conditions are excessively hot and dry.

Application

Three types of construction project applications are detailed further:

1. Laying blocks or bricks;
2. Plastering New Walls (block and brick);
3. Repairing existing plastered walls

1- Laying blocks or bricks

- At the outset, place enough mortar onto the base to form a bonding bed where the brick or block will be placed;
- identify the desired row height and lay in two initial blocks;
- Place brick or block onto the mortar bed, buttering the receiving end which will be adjacent to the next block in sequence;
- Ensure every block/brick face to be bonded to another adjacent unit receives mortar;
- Use a spirit level to periodically check for level and plumb;
- Continue to tap successive blocks into place, ensuring sufficient use of mortar to bond each block into place;
- Repeat the process on each successive row until wall is complete;
- Clean excess mortar and point joints (if this is the desired style) once mortar has set and is firm to the touch (usually 45 mins- 1 hour after).

2- Plastering New Block /Brick Walls

- When used for plastering or patching, a PVA or acrylic bonding agent may be mixed in with the mortar.
- Before commencing, ensure surface to be plastered is clean and dust free.
- Lightly moisten the surface with clean water. Use a sponge or spray bottle;
- Apply mortar using a trowel, spreading and compacting the material to the desired approximate thickness;
- Work from the base of the wall toward the top, pausing every few minutes to ensure that proper bonding is taking place and to check for signs of slumping or mortar falling off the wall face;
- After completely covering the wall surface the mortar has achieved its initial bond after approximately 45 mins -1 hr.
- Moisten the new surface before and during “rodding” with a straight edge to achieve a level finish.
- Use a float and small amounts of water to smooth the now level surface to a final finish, filling in low spots and rubbing out any remaining high spots as required;
- On completion, keep the mortar damp to promote proper curing. Draping plastic over the wall surface can help retain moisture, if

weather conditions are excessively dry, hot or windy. When surface becomes too dry, re-moisten and replace the plastic sheeting;

- Continue to moisten the surface periodically.

3- Repairs

- When repairing a broken or damaged wall section a PVA or acrylic bonding agent may be mixed into the mortar to increase bond strength
- Remove all loose material in the area to be repaired, and dampen the receiving surface area;
- A PVA or acrylic bonding agent should be brushed onto all surface areas that are receiving fresh mortar to assist in overall bond strength between old surface and new material;
- Place mortar into the work area and spread the material into voids taking care to compact the plaster sufficiently to remove air pockets, low spots or high points at the edges of the work area;
- Level the surface with a straight edge or rod to the desired height;
- Allow fresh mortar to set about 45 minutes or until the surface water begins to disappear before floating to a final smooth plaster finish.

Curing

- Micro Milling Plaster Mix is designed to meet normal curing parameters of 28 days before full strength is achieved;
- Proper curing requires maintaining adequate moisture and preventing rapid drying rates. Occasional wetting of the mortar is therefore encouraged to promote strength, reduce shrinkage and prevent hairline cracks, especially in tropical conditions;
- Avoid tampering with surface for at least 24 hours and applying any paint primers, sealants or decorative treatments for at least 7 days after.

Maintenance

None required

Coverage

Powder/Water/ Yield

Bag Size: 50 lb. (22.7 kg) bag			
Water Required: 5.3 US Qts. (5 litres)			
Block/brick laying:	Clay 4x8x12" Approx.: 18-20	Concrete 4x8x16" Approx.: 16	Foundation 6x8x16" Approx.: 10
Plastering:	⅜" (3.2mm) thickness Approx.: 40-42 ft ²	¼" (6.4mm) thickness Approx.: 20-21 ft ²	½" (12.7mm) thickness Approx.: 10-12 ft ²

Clean Up

While material is still fresh wash tools, hands and all equipment used with clean soapy water

Colour

Grey

Packaging

Micro Milling Plaster Mix is packaged in 50 lb. (22.7 kg) bags
72 bags per pallet

Storage

Micro Milling Plaster 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

Six (6) months from the date of manufacture in unopened bags that are properly stored.

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 Plaster 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 Plaster Mix product under normal environmental and working conditions. Because each project is different Micro Milling Limited cannot be held 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.

Revision Date: July 29, 2021