

Product name

Diamond Mortar Aid

Manufacturer

Produced by
Diamond Dry Mortars Inc.

Product description / General Purpose

Diamond Mortar Aid is polymer based additive in powder form to mix together with traditional sand-cement mortar to improve the performance. Typical applications are Rendering and Tile adhesive. Diamond Mortar Aid will provide the following benefits:

- improves workability of mortar
- quicker application
- anti sagging
- improved bonding
- reduces cracks
- reduces water absorption
- extended open time in hot weather
- Suitable for all coloured and white mortars.

*The Strength test results is very dependent on the mix proportions, the water content, the type and fineness of the sand as well as the properties of the cement. Bonding to the substrate depends very much on the substrate and might vary from the specified value. It is recommended to perform tests on site to verify the actual bonding with the substrate of actual mix.

The typical test results here are based on a Portland Cement type 1 mixed with washed river sand from Pampanga in mix proportion 1:3 (cement:sand per volume) for rendering and 1:1.5 for tile adhesive.



Physical Properties

Colour	Off-white
Dry bulk density EN 1015-6	800 to 900 kg/m ³
Typical Adhesion Strength* For Rendering (Mix as described in usage section) EN 1015-12	>0.5 N/mm ²
Typical Adhesion For Tile Adhesive (Mix as described in usage section) EN 1348	>0.8 N/mm ²
Typical Compressive Strength* For Rendering (Mix as described in usage section) EN 1015-11	>8.0 N/mm ²
Shelf life	1 year
Packing	1.5 kg per bag



Mixing and application

1. Packing and storage

The material is packed in 1.5 kg plastic bags and have to be stored out of direct sunlight and extreme heat.

2. Surface preparation

Ensure the substrate is sound, clean and free from any dust, loose particles and contamination like oil, grease including form-oil compounds. Uneven surfaces should be grinded down or patched.

3. Mixing

Mix the Portland cement with the Mortar Aid and sand in the desired proportion

- Rendering typical 1 part cement to 3 part sand by volume (or 1 to 4 by weight).
- Tile fixing typical 1 part cement to 1.5 part sand by volume (or 1 to 2 by weight).
- Mix the Mortar Aid-cement-sand mix with clean water to the right consistency.
- Thoroughly mix until a homogenous mix.
- Mixing equipment: Motorized concrete/mortar mixer or electric stirrer.

4. Application

Apply onto substrate by manual or mechanical means. For rendering application in one or two layers. Level out the material using a trowel or spatula. For tile fixing use the material in similar way to traditional tile adhesive.