## Diamond Mortar Aid Polymer rich mortar additive

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## Product name

Diamond Mortar Aid

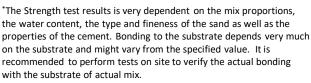
## Manufacturer

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 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 <sup>3</sup>
Typical Adhesion Strength* For Rendering (Mix as described in usage section) EN 1015-12	>0.5 N/mm <sup>2</sup>
Typical Adhesion For Tile Adhesive (Mix as described in usage section) EN 1348	>0.8 N/mm <sup>2</sup>
Typical Compressive Strength* For Rendering (Mix as described in usage section) EN 1015-11	>8.0 N/mm <sup>2</sup>
Shelf life	1 year
Packing	1.5 kg per bag

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## 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.