

# ALDRIDGE

Aldridge Corporation Pty. Ltd.

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## High Performance Membranes

[www.hpma.com.au](http://www.hpma.com.au)

### USES

- Basement repairs
- Manhole repairs
- Concrete pipe and bell repairs
- Anchoring bolts and hand rail settings

### CHARACTERISTICS

- Plugs wet cracks in concrete and masonry surface to seal out water.
- Stops water seepage at floor and wall junctions
- Stops running water, reducing damage.
- Expands as it sets for a water tight repair.

## HPM-MEGAPLUG

### Non shrink Fast Setting

### Hydraulic Cementitious Plugging Mortar

#### INTRODUCTION

HPM-Megaplug is a high performance fast setting, hydraulic cementitious plugging mortar formulated to stop leaks in concrete and masonry surfaces. It is particularly effective for stopping the flow of running water. HPM-MEGAPLUG is ready to use and requires only the addition of water before plugging and sealing cracks.

#### APPLICATION:

- Ensure that the concrete is clean and rough.
- Remove all oil, dirt, debris, paints and unsound concrete.
- Prepare surface mechanically by using a scabblier or wire brush.
- Use vacuum cleaner or pressure washing to ensure thorough cleaning and removal of all residue.
- HPM-Megaplug does not require any special bonding procedures.
- Ensure the temperature ranges between 150C- 350C.
- Add HPM-Megaplug in appropriate amount of water for the batch size.
- Mix with a drill for about a minute.
- Place the mix immediately on the leaking concrete/masonry surface.
- In case of cracks, widen out and clean cracks to at least 15mm x 15mm deep, apply HPM-Megaplug to plug the prepared crack with a pointing trowel and slick off the surface.
- Prepare a cove at the junction.
- If more time is desired when preparing the cove, mix the HPM-Megaplug with Ice water.
- In case of running water. Dam up running water.
- Prepare all cracks properly and, if possible, relieve excess hydrostatic pressure by drilling a relief hole or by chiselling out the crack at its very lowest point.
- Mix an adequate quantity of HPM-Megaplug. After mixing, immediately place the plug of HPM-Megaplug in your hand and hold it until it suddenly begins to get warm.
- This will take 2-3mins from the start of mixing. At this point, speed in working is essential. Force the HPM-Megaplug plug into the hole or crack which is to be sealed off. Start filling cracks or holes at the top. To close the final opening and seal off a stream of water, make sure the HPM-Megaplug is starting to warm up, force into the hole and exert pressure either with your hand or trowel for a full 5min

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|                                    |                      | HPM-Megaplug        |
|------------------------------------|----------------------|---------------------|
| <b>Colour and Appearance</b>       |                      | Grey powder         |
| <b>Bulk Density</b>                | (kg/m <sup>3</sup> ) | 1.65                |
| <b>Compressive Strength@28days</b> | (N/mm <sup>2</sup> ) | 32N/mm <sup>2</sup> |
| <b>W/P Ratio</b>                   |                      | 0.18-0.20           |

or longer to assure setting of the plug.  
In some cases where is water is extremely cool, it may be necessary to hold the plug into place for a little longer.

- In case of bolt and Hand Rail Anchoring, use a star drill to make a hole approximately 1-1/2" (38mm) larger than the anchor.
- Mix enough **HPM-Megaplug** to fill the area and pour and tamp it into place around the anchor.
- Finish **HPM-Megaplug** to the desired textured to match the surrounding concrete.
- Do not add additional water to the surface during the finishing operation.
- Use **HPM-Megastop** as final waterproofing coating or additional protection against water seepage and to improve the appearance and uniformity of the repair area.
- **HPM-Megaplug** requires no special curing procedures.

### CLEANING

- Clean tools and equipment with water before the material hardens.

### PACKING & STORAGE

- **HPM-Megaplug** is available in 15kg pails.
- Up to 12months in unopened containers.
- Keep out to direct sunlight and moisture.

### HEALTH & SAFETY

- **HPM-Megaplug** contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling.
- Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labelling.
- Treat any splashes to the skin or eyes with fresh water immediately.
- Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

For more details, please refer to the MSDS released on each Aldridge Corporation product