

HYDROC PLUG

DESCRIPTION

Hydroc Plug is a fast setting, single component cementitious plugging mortar that permanently stops seepage of water and pressure leaks from cracks and construction joints.

Hydroc Plug is a chloride free, ready for use grey powder based on Portland cement with special additives that is suitable for use in various structures composed of concrete, rock, timber and masonry.

USES

Repair of vertical, horizontal and overhead applications stopping water from static cracks and holes in situations such as:

- Water storage tanks
- Basements
- Retaining walls
- Building foundations
- Below ground car parks
- Sewers
- Mine sites

FEATURES AND BENEFITS

- Versatile application by mixing with water or used as a dry powder
- Permanent durable repair
- Stops water flow
- Can be installed underwater
- Fast setting with rapid strength development
- High water-stopping power and hydraulic resistance
- Good adhesion to repaired material
- Fast and easy application
- Non-toxic

TYPICAL PROPERTIES

Appearance	Cement grey powder
Bulk density	Approximate 1.3g/cm ³
Initial setting time	30 seconds (after mix)
Temperature for application	5-30°C
	60 min: 7.6
Compressive strength (MPa)	1 day: 26.7
	28 days: 36.4
Flexural strength (MPa)	28 days: 7.7
Bond strength (MPa)	28 days: 6.8

APPLICATION GUIDELINES

Surface Preparation

Hydroc Plug must be applied to a clean surface free of contaminants. Remove any weak, spalling, unconsolidated concrete and existing coatings prior to thoroughly cleaning the surface. The use of mechanical preparation such as pressure or grit blasting may be required to ensure a clean and suitable substrate.

Application Method

Thoroughly and quickly mix the powder and water for no more than 60 seconds in approx. mass ratio of 3 to 1. Hydroc Plug Some heat will be released. Mix only the quantity that can be immediately applied by gloved hand or trowel. Quickly place the mixed mortar firmly into the leaking voids and hold in place with a gloved hand or trowel until the mortar is sufficiently

hard to remain in place. When the leak is completely stopped, a 2-3 mm layer of Hydroc Render is recommended to be applied over the Hydroc Plug mortar. If the water pressure is very high and dislodges the applied mortar, use a timber plug or similar which can then be covered and secured with Hydroc Plug mortar. Plug shall be applied from the lowest point of water leak or seepage working up to the highest progressively.

It is recommended that situations of high water pressure be released by drilling a penetration in the substrate and installing a drainage pipe prior to applying Hydroc Plug to areas of existing leakage. When complete, remove pipe and apply Hydroc Plug to the penetration.

CURING TIME

All exposed areas should be thoroughly cured. This should be done as soon as the surface is firm, by the use of concrete curing membrane, such as Aardcure WBS, continuous application of water or wet hessian.

IMPORTANT

Finishes containing Portland cement may be applied over Hydroc Plug following the curing period, but other paint and coating finishes should not be applied before 28 days.

Hydroc Plug is not a decorative treatment and may be subject to blushing which will not affect performance but be visually unappealing.

CLEAN UP

Clean tools and equipment thoroughly with clean water before they dry.

PACKAGING

15 kg plastic pail.

SHELF LIFE

12 months when kept in dry store unopened in sealed bags or plastic pails.

SAFETY PRECAUTIONS

Always wear adequate personal protection during use including gloves, eye protection, overalls and appropriate mask. Apply in adequate ventilation. Refer to Material Safety Data Sheet for further safety information.

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