Mars Concrete Engineering Series

MARS WaterProof

MarsPlug 180

Premium Grade, Effective Quick-Setting Hydraulic Cement

[Singapore Product]

Made in Singapore

DESCRIPTION

MarsPlug 180 is a one-component, quick-setting, durable hydraulic cement plug. MarsPlug 180 is a non-shrink cement patch with great flexural and bond strengths.

USES

MarsPlug 180 is specially designed to assure watertight seals at joints, sewer lines, tanks, tunnels and mines; immediately stops running seepage through cracks in concrete sewer, tanks, elevator pits, or concrete surfaces exposed to hydraulic water pressure.

- To caulk water leakage
- To fill holes and cracks
- To seal pipe and drains
- To anchor railings
- To patch spalled areas

ADVANTAGES

- Ready to use for quickly setting hydraulic cement
- Non-metallic, Very rapid strength gain.
- Freeze / Seawater resistant.
- Free of chloride and soda
- Free of corrosive to embedded metals
- Airtight seal

SETTING TIME

180 seconds

COVERAGE

1.7kg of powder produces about 1 litre of mortar.

PACKAGING

15 kg / Pail

4.5 kg / Can

METHOD OF MIXTURE

Pour potable water into a clean mixing container and gradually add the dry MarsPlug 180. Use approximately 0.32 litre of water to about 1kg of material. Using a trowel mix rapidly to the consistency of stiff putty with no slump. Mix no more than 1 minute.

APPLICATION

General Patching

1. Cut or chisel out the concrete or masonry surrounding the hole or crack to a minimum depth and width of 20mm.
2. To provide a mechanical bond during cure period, undercut the crack or hole in shape of an inverted "V".
3. Flush, blow or vacuum all of the loose particles, dust and other foreign materials from the prepared areas.
4. Thorougly wet the areas to be patched immediately before installing MarsPlug 180.
5. Force MarsPlug 180 into the crack or hole by hand or with a trowel.
6. Fill MarsPlug 180 to the full depth of the opening.

Patching Active Leaks

1. Start at the top of the crack or hole, and force the MarsPlug 180 to the full depth of the prepared area.
2. Apply direct pressure to the new patch until iot has taken a firm set.
3. Using fresh material, concrete patching towards the area of the greatest pressure.

Floor-Wall Fillet

1. Follow the above methods for the specific conditions encountered.
2. Use a rounded tool to force the MarsPlug 180 into the joint and construct a 45 degree transitional cove between the floor and wall at the same time.

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