



PLUG

fast setting hydraulic cement

STANDARD MIX (BLUE LID) - HOT MIX (RED LID) - 20 MINUTE MIX (GREEN LID)

DESCRIPTION:

MS-Plug is a cement-based hydraulic cement that is fast setting. It is used to instantly stop running water or seepage leaks in concrete or masonry. When mixed with clean potable water, STANDARD MIX sets in 3-5 minutes; HOT MIX in 45-90 seconds. 20 MINUTE MIX in approximately 20 minutes. Actual setting time depends on the temperatures of the dry powder, mixing water, and the structure to be patched. Cold temperatures will retard the setting time. Hot temperatures will accelerate it. Mixing water should be around 21°C (70°F). MS-Plug expands as it sets.

USES:

MS-Plug is used above or below grade, interior or exterior, to stop water seepage and flowing water in concrete and masonry. MS-Plug is an ideal patching material for manholes, sewers, concrete pipe, wells, retaining walls, water treatment plants, tunnels, and basements.

COMPOSITION/MATERIALS:

MS-Plug is a blend of Portland cement, fine aggregates, and other ingredients modified to control initial and final set times.

SURFACE PREPARATION:

All surfaces must be clean and free of dirt, dust, paint, and sealers that will inhibit the patching material from bonding. Dampen areas to be patched before applying MS-Plug. DO NOT retemper. MS-Plug is not recommended for use when the temperature is 40°F and falling.

MIXING INSTRUCTIONS:

Pour water into a mixing container (1 pint of water will mix approximately 8 lbs. of powder). Add the dry powder, mixing rapidly with a trowel to a stiff, no-slump consistency. Mix no more than 30 seconds. Do not add aggregate or additives to the mix.

APPLICATION TECHNIQUES:

Dampen surface to be patched with water prior to application of MS-Plug. Form the patch in the shape of a cone and force it into cracks or holes where water is seeping. Keep pressure on the patch until it achieves its initial set. MS-Plug may be shaved to conform to surrounding surfaces.

COVERAGE:

One pound will fill 17 cubic inches or a crack 3/4" x 3/4" x 30".

TECHNICAL DATA:

PROPERTIES	TEST METHOD	RESULTS
Compressive strength	ASTM C-109	1 day - 3500 psi 7 days - 4900 psi 28 days - 5500 psi
Tensile strength	ASTM C-190	1 day - 200 psi 2 days - 250 psi 28 days - 450 psi
Volume change Set time @ 77°F	Standard mix Hot mix	None 3 - 5 minutes 45 - 90 seconds

ENVIRONMENTAL AND SAFETY PRECAUTIONS:

MS-Plug contains Portland cement and is alkaline on contact with water. Wear rubber gloves. It is irritating to eyes and skin. In case of eye contact, flush eyes with water repeatedly and call a physician

immediately. DO NOT rub eyes. KEEP OUT OF REACH OF CHILDREN. Consult Materials Safety Data Sheet for further information.

PACKAGING:

MS-Plug is available in 10-lb. cans (4 per case) or 50-lb. pails (36 per pallet).

STORAGE:

MS-Plug is stored on pallets protected from moisture.

SHELF LIFE:

Shelf life of MS-Plug is one year in proper storage.

WARRANTY:

This product conforms to current applicable specifications and is manufactured to meet published physical properties when properly cured and tested according to ASTM Standards. Since seller has no control over the conditions of use or storage of the product sold, seller cannot guarantee the results obtained through the use of its products. The buyer shall determine the suitability of the product for its own purpose. Seller shall in no event be liable for consequential (including loss of profits) or punitive damages. Seller's liability hereunder, if any, shall be limited to replacement of goods sold. This warranty is in lieu of any and all other warranties, expressed or implied.

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