

RS-Patch



Product Information

DESCRIPTION

The RS-Patch Cement is a high early strength material consisting of a dry, factory blended, rapid setting cement mortar. Designed to repair and fill non-moving cracks and voids in damaged brick, concrete, and Fiberglass structures. The RS-Patch Cement is a durable, sulfate resistant, shrink compensated calcium aluminate cement product that sets in approximately 6 to 10 minutes in summer and 9 to 13 in winter, with a final set in 15 to 20 minutes. The set time is effected by the water temperature, curing and environmental conditions. This product does not contain calcium chloride.

USES

- Repair vertical/overhead surfaces, bottoms, bench, bases, and inverts sections in wastewater structures.
- Patch and fill holes, cracks wider than 1/64 inches in masonry, concrete pipelines, around inlets, and Fiberglas to concrete interface areas.
- Suitable for patching pre-cast concrete structures, driveways, water fountains, water wells, tunnels, column bases, spot-seal broken concrete, set bolt anchors and hold-downs, and miscellaneous grouting.

AVAILABILITY

The RS-Patch cement is pre-packaged in 50-pound polyethylene lined bag or 5 gallon buckets upon client's request. The RS-Patch Cement is sold in pallets and truckload quantities (54 bags or 36 buckets per pallet).

PREPARATION

Clean the repair area thoroughly. Remove all of the loose concrete, dirt, oil, grease or paint and any other deleterious material that may prevent the RS-Patch cement from bonding. Dampen the repair area. Do not allow the water to puddle. Mix a small amount of the RS-Patch cement with clean, cold water to a thin, smooth consistency. Use this mixture as a primer and brush it over the area and into all of the pores and voids carefully. The exact water may vary.

MIX

Mix a small amount of the RS-Patch cement with potable water. Mix the cement material thoroughly for about 1-3 minutes or to the consistency of soft putty and fill the repair area. The RS-Patch cement begins to stiffen in about 6 to 13 minutes depending on ambient conditions.

APPLICATION

Apply with a gloved hand or a steel trowel. Push and smooth the RS-Patch Cement material into voids, holes or damaged areas. After which, smooth the surface flush with a trowel, sharp pointing tool or scraper. Use the cement patch material to make quick repairs, level deteriorated surfaces and build new bases/inverts or when high early strength gain is required.

CURING

Protect the cement patch material, wet cure immediately, keep the patch damp by spraying lightly with water or cover with a damp cloth for at least one hour. Protect the cement patch material from dry, hot weather, extreme temperatures, rapid evaporation, and windy conditions. The manufacturer shall approve all structural applications.

CLEAN UP

Wash with soap and water. Rinse thoroughly.

TECHNICAL DATA

Physical Properties	PSI		
Compressive Strength	2-hr	24-hr	28-day
ASTM C 109	>2,500	>5,500	>8,100
Bond Strength			
ASTM C 321	140+		

Test results obtained by an independent laboratory

COVERAGE

50-pound bag/pail covers ½ cubic foot.

PERCAUTIONS

Mix and apply the RS-Patch cement carefully. Extreme cold or hot weather will effect the setting time. Use warm water to achieve normal set at 70 degrees °F. Do not apply material in temperatures below 40 degrees °F.



STORAGE

The RS-Patch Cement mortar should be stored in dry conditions at 70°F. No modification should be made to the specified handling, mixing and finishing of this product as stated in the product literature. This product contains hydraulic cement and should be retested every six months of storage. Contact a Manhole Rehab, Inc. representative for technical assistance.

SAFETY

Follow all of the safety precautions: May Cause Eye and Skin Irritation. Contains calcium based by products, free silica and other components. Do not breathe the dust. Use eye protection and avoid prolong exposure. In case of eye contact, wash with water immediately for 15 minutes, Wash thoroughly after handling. If skin problems arise, flush area with water and get medical help. May cause delayed lung injury. Follow OSHA Safety and Health Standards for crystalline-silica-quartz. See safety data sheet for detailed information. Keep out of reach of children.

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