Mainstay[®] GeoSpin[™]

Geopolymer Repair Mortar

RESTORE. PROTECT. SUSTAIN.

Features/Benefits

LOW PERMEABILITY HIGH EARLY AND ULTIMATE STRENGTH EASY TO USE AND FINISH WATERPROOFS/DAMP-PROOFS

NON SHRINK/CRACK RESISTANT ECO-FRIENDLY HIGH BUILD RESTORES DETERIORATED SURFACES

PRODUCT DESCRIPTION

MAINSTAY GEOSPIN is a special blend of cement, microsilica, thermoplastic fiber, densifiers, admixtures, and other modifiers that produces a high strength and low permeability geopolymer repair mortar. MAINSTAY GEOSPIN is typically used to repair corrugated metal pipes, culverts, manholes, and other underground infrastructure that suffer from corrosion damage. Composed, in part, of recycled materials, MAINSTAY GEOSPIN boasts a low carbon footprint and is a highly sustainable and environmentally friendly product. MAINSTAY GEOSPIN has excellent corrosion resistance properties that protect against further deterioration. MAINSTAY GEOSPIN can withstand corrosive environments with a pH of 1 or higher, cures up to 10,000 psi compressive strength, increasing structural integrity. When applied to pipes and culverts, MAINSTAY GEOSPIN essentially creates a pipe within a pipe and provides a low cost alternative to open-cut pipe replacement. MAINSTAY GEOSPIN stops groundwater infiltration, seals leaks, and resists hydrostatic pressure. It can be applied up to five inches to corroded pipes that have rusted through and expose the surrounding soil.

Composition:

A proprietary mixture of special cements, silica fume, thermoplastic fibers, and modifiers.

Color:

Dark gray.

Yield:

.54 cubic feet (ft^3) per 65 pound (lb) bag when mixed correctly.

Coverage:

Approximately 13 square feet (ft^2) per bag at 1/2". Allowances should be made for waste.

Thickness:

Depends on the application. 1" is generally sufficient for smoothing concrete that has experienced surface attack (exposed aggregate). Minimum thickness is usually 1/2". Consult a Mainstay Technical Representative for specific recommendations.

PACKAGING:

Normally stocked in 65-lb bags.

PRODUCT **D**ATA

Surface Preparation:

Prepare surfaces to be repaired by Low Pressure Water Cleaning (LP WC, 4,000 psi minimum), abrasive blasting, hand, or power tool cleaning to remove all unsound concrete, contaminants, dirt, debris, and/or deteriorated reinforcing steel. Refer to the International Concrete Repair Institute (ICRI) technical guideline titled Surface Preparation Guidelines For The Repair Of Deteriorated Concrete Resulting From Reinforcing Steel Oxidation and/or contact a Mainstay Technical Representative for information on removal techniques that are best for your application. Surfaces should have a minimum ICRI Concrete Surface Profile (CSP) #5 (preferably with aggregate exposed) and should be inspected for soundness prior to the application of MAINSTAY GEOSPIN. Saturate all surfaces thoroughly with clean water and allow to surface dry just prior to the application of MAINSTAY **GEOSPIN**.

Mixing:

Add 1.2 gallons of clean water per 65 lb bag. Mix thoroughly using a gasoline, electric, or hydraulically powered paddle-type mixer.

Working Time:

Approximately 30 minutes at 80° Fahrenheit (F). The working time will be extended at lower temperatures and shortened when higher.

Application:

MAINSTAY GEOSPIN is typically applied using centrifugally the Madewell Horizontal Mortar Spinner & Chain Puller. This machine pulls a load rated chain using a uniquely constructed air motor, gear, and sprocket set up. The use of a chain for this application means that the pulling device is able to retract long lengths (as much as several hundred feet) of mortar hose along with the mortar spinner. MAINSTAY GEOSPIN can also be applied by low to medium velocity wet mix shotcrete equipment (pneumatic spray), by hand using a trowel, or to round, vertical structures such as manholes using the Mainstay Mortar Spinner. Application thicknesses up to 5" in single or multiple passes are possible depending on the amount of water added, the condition of the surfaces being treated, and jobsite conditions. Consult a Mainstay Technical Representative for information regarding equipment that is best suited for your job.

Finishing:

In most culvert lining applications, finishing is not usually required. **MAINSTAY GEOSPIN** can be finished using a steel trowel, wood float, sponge float, broom, or brush, depending on the surface texture desired.

CURING:

MAINSTAY GEOSPIN should be kept moist for the first 72 hours after placement.

CLEAN UP:

Clean equipment and tools with clean tap water.

Delivery & Storage:

Check containers for damage, and verify quantities before accepting shipments. Store **MAINSTAY GEOSPIN** in a cool, dry place.

Shelf Life:

1 year, depending on storage conditions, subject to re-inspection thereafter.

SAFETY:

KEEP OUT OF REACH OF CHIL-DREN.

FOR INDUSTRIAL USE ONLY.

MAINSTAY GEOSPIN contains portland cement and chemicals that MAY CAUSE EYE. SKIN. RESPIRATORY. OR NERVOUS SYSTEM SENSITIZA-TION. Adequate health and safety precautions should be observed during all storage, handling, use, and drying periods. For best results and safest usage, user is specifically directed to consult the current "Material Safety Data Sheet" for this product. When using this product in a confined space or closed area, consult the current the OSHA or American National Standards Institute (ANSI) bulletins on safety requirements. Do not take internally. If swallowed, call a physician immediately. Keep away from open flame, and keep containers tightly closed when not in use.

WARRANTY:

All technical data, recommendations, and services are rendered by the Seller gratis. They are based on technical data that the Seller believes to be reliable and are intended for use by persons having skill and knowledge at their discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use by the Buyer whether as recommended herein or otherwise. Such recommendations, technical advice, or services are not to be taken as a license to operate or intended to suggest infringement of any existing patent. MADEWELL PROD-UCTS CORPORATION MAKES NO GUARANTEE OR WARRANTIES EXCEPT AS OTHERWISE PRO-VIDED IN WRITING AND DIS-CLAIMS ANY AND ALL WAR-RANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.