

Mainstay® 714™

Flake Glass Epoxy Novolac Vinyl Ester Coating



FEATURES/BENEFITS

LOW PERMEABILITY	STEEL TANK LINING
SUPERIOR TOUGHNESS	CLARIFIERS AND SCRUBBERS
SUPERIOR CHEMICAL RESISTANCE	FLOORS, SUMPS, AND TRENCHES

PRODUCT DESCRIPTION

MAINSTAY 714 Flake Glass Epoxy Novolac Vinyl Ester Coating is designed for application over steel and concrete substrates. MAINSTAY 714 is resistant to a wide variety of chemical exposures including many strong organic and inorganic acids, solvents, alkaline chemicals, and some oxidizing agents. It is well suited for use in immersion, splash, and spill service.

MAINSTAY 714 may be used as a topcoat over MAINSTAY DS-5 100% Solids Epoxy Coating and MAINSTAY ML-72 Sprayable Microsilica Restoration Mortar for concrete structures that require surface restoration as well as protection from aggressive chemical environments.

PRODUCT DATA

COMPOSITION:

100% reactive, flake glass filled, epoxy novolac, vinyl ester coating.

FINISH:

Matte.

COLORS:

Gray and red.

THICKNESS:

20 mils in one coat, depending on the application. Consult a Mainstay Technical Representative for specific recommendations.

COVERAGE:

Approximately 80 square feet (ft²) per gallon at 20 mils; 360 ft² per 4.5-gallon kit at 20 mils. Allowances should be made for waste.

Note: The styrene monomer component of this product is volatile and some will likely evaporate during cure. Depending on conditions, 5% to 15% loss of film thickness may occur during cure.

PACKAGING:

Normally stocked in 4.5-gallon, two-component kits; special packaging available.

SURFACE PREPARATION:

Steel: Apply only to clean, sound surfaces. All metal surfaces should be degreased and decontaminated prior to abrasive blast cleaning. For immersion service, surfaces should be abrasive blast cleaned to a white metal (NACE No. 1 or SSPC SP 5) condition with a dense 2 to 4 mil anchor profile depth.

Concrete: Do not apply this product directly to concrete. At a minimum, concrete surfaces should be primed with MADEWELL 927 Penetrating Epoxy Primer. Deteriorated concrete may be restored using MAINSTAY ML-72 or ML-72F Sprayable Microsilica Restoration Mortar followed by MADEWELL 927 Penetrating Epoxy Primer and MAINSTAY DS-5 100% Solids Epoxy Coating. Consult a Madewell Technical Representative for specific recommendations or see appropriate product data sheets for additional information.

EXTREMELY ROUGH SUBSTRATES & DEEP VOIDS:

Extremely rough or deteriorated concrete could be more economically smoothed and/or repaired using

MAINSTAY ML-72 or MAINSTAY ML-72F Mortar – see applicable product data sheets or contact a Mainstay Technical Representative for more information.

SMOOTHING MINOR SURFACE

IRREGULARITIES:

Use MADEWELL 1312P Sprayable Epoxy Putty to smooth minor surface irregularities (less than 1/8" deep).

PRIMING:

Not required for steel surfaces. Concrete surfaces should be primed with MADEWELL 927 Primer. See product data sheet for surface preparation and application instructions.

MIXING:

This is a two component system. Each component (liquids A and B) should be at room temperature (73° Fahrenheit, F) prior to mixing. The contents of the A component should be thoroughly mixed before combining with the B component. Blend components A and B together thoroughly using a power agitator, such as a Jiffy® mixer, and a high strength industrial drill for a minimum of 2 minutes. **This product has a short pot life.** Plan work carefully be-

fore mixing, and do not mix more material than can be used within stated working times.

Always mix complete kits. Mixing of partial kits is not recommended because the volume of the B component (the catalyst) is very small in comparison to the volume of the A component (the resin).

WORKING TIME:	
Temperature	Working Time
60° F	80 min.
80° F	40 min
100° F	15 min

RECOAT TIME:		
Temperature	Min.	Max.
60° F	12 hrs.	5 days
80° F	5 hrs.	5 days
100° F	2 hrs.	3 days

Note: When cured at temperatures above 130° F (such as exposure to direct sunlight under summertime conditions) **MAINSTAY 714** must be recoated within 24 hours.

THINNING:

Do not thin this product.

APPLICATION:

Vinyl ester resins will not cure properly in the presence of moisture and contaminants. Apply **MAINSTAY 714** only to a clean, dry substrate and protect it from moisture and contamination until fully cured.

This product is to be applied by trained workers using specialized equipment. Both components must be preheated between 70° F and 80° F prior to application. A 56:1 airless spray pump with an air input pressure of approximately 45 pounds per square inch (psi) may be used to feed material through up to 50' of 3/8" diameter hose to a standard airless spray gun with a 0.035" reversible tip. Remove strainers when using this product.

MAINSTAY 714 may be applied by brush or roller for small areas or specialized applications. Contact a Main-

stay Technical Representative for specific application equipment recommendations.

MAINSTAY 714 may be applied to **MAINSTAY DS-5**, **MADEWELL 1312S**, or **MADEWELL 927** as soon as the epoxy is hard to the touch.

NUMBER OF COATS:

Depends on service requirements. Generally speaking, linings or coatings for immersion service should be holiday free. The number of coats required to attain a holiday free lining or coating may vary depending on surface profile or roughness. Single coat applications should be done in multiple passes, each made at right angles to the last.

CURE TIME:

Splash and spill: 24 hours at 70° F.

Immersion service: 48 hours at 70° F, depending on the chemical service and cure temperature.

CLEAN UP:

Use acetone or methyl ethyl ketone (MEK) to clean application equipment. Skin should be cleaned using warm, soapy water or commercial hand cleaner.

DELIVERY AND STORAGE:

Check containers for damage, and verify quantities before accepting shipments. Store components in sealed containers in a dry environment at moderate temperature conditions (40° F to 80° F).

SHELF LIFE:

2 months, depending on storage conditions, subject to reinspection thereafter.

SPECIAL NOTES:

This product is for professional use only. It is intended for use by persons skilled in the application of industrial protective coatings and linings. Persons using this product must employ proper standards for safety, housekeeping, and personal hygiene. At a minimum, respiratory, eye, and skin protections should be employed.

Component A is flammable. Do not use the product near open flames, sparks, or heat.

Component B is a strong oxidizer. Keep this material away from heat, flame, and reactive materials such as promoters (e.g. cobalt naphthenate) and amine curing agents.

SAFETY:

KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. **MAINSTAY 714** contains vinyl ester resins that *MAY CAUSE EYE, SKIN, RESPIRATORY, OR NERVOUS SYSTEM SENSITIZATION*. 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 Safety Data Sheet for this product. When using this product in a confined space or closed area, consult the current Occupational Safety and Health Administration (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

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