

Madewell® 1312E™

100% Solids Epoxy Saturant (Resin)



FEATURES/BENEFITS

LOW SHRINKAGE	MOISTURE TOLERANT
LONG WORKING TIME	ABRASION RESISTANT
EXCELLENT ADHESION	ROLLER OR SPRAY APPLICATION

PRODUCT DESCRIPTION

MADEWELL 1312E is a 100% solids epoxy saturant (resin) specifically designed for use with glass, carbon, or other synthetic fiber reinforced systems for the protection and/or reinforcement of concrete, steel, wood, or composite structures. This two component system can be applied by roller, brush, or spray. The absence of solvents reduces shrinkage, cracking, and disbonding and eliminates problems related to solvent entrapment.

PRODUCT DATA

COMPOSITION:

100% solids, modified epoxy saturant (resin).

COLOR:

Translucent blue.

THICKNESS:

Depends on fiber being saturated. This product is not designed for application without secondary reinforcement (fiber or glass flake).

COVERAGE:

Theoretical coverage is 1,604 square feet (ft²) per gallon. Actual coverage depends on material being saturated. Allowances should be made for waste.

PACKAGING:

Normally stocked in 4.5-gallon 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** Restoration Mortar followed by **MADEWELL 927** Primer. 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** Sprayable Microsilica Restoration Mortar – see applicable product data sheets or contact a Madewell 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:

Concrete surfaces may be primed with **MADEWELL 927** Primer. See product data sheet for surface preparation and application instructions.

MIXING RATIO:

Mix components at a volume ratio of 2 parts A to 1 part B. Whenever possible, avoid mixing partial kits.

MIXING:

This is a two component system. All components (liquids A and B) should be between 70° Fahrenheit (F) and 90° F prior to mixing. The entire contents of each component should be thoroughly mixed individually before combining separate components together. If it is not possible to mix an entire kit, pour carefully measured quantities of both components into a clean container and blend thoroughly using a power agitator, such as a Jiffy® mixer, and a high strength industrial drill for 3 minutes. Do not mix more material than can be used within stated working times.

WORKING TIME:

Approximately 45 minutes at 100° Fahrenheit (F). Working time will be extended at lower temperatures and shortened when higher.

THINNING:

Thinning is not recommended.

APPLICATION:

This product is typically applied by hand using a high quality medium nap

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roller and ribbed fiberglass roller. Special application using air or airless spray is also possible. Contact a Madewell Technical Representative for specific recommendations and sources.

NUMBER OF COATS:

Depends on service requirements. Contact a Madewell Technical Representative for specific recommendations.

CURE TIME:

Foot Traffic: 24 hours at 75° F, depending on cure temperature.

CLEAN UP:

Use xylene 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:

1 year, depending on storage conditions, subject to reinspection thereafter.

SAFETY:

KEEP OUT OF REACH OF CHILDREN.

FOR INDUSTRIAL USE ONLY.

MADEWELL 1312E contains epoxy 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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