

# Madewell® 1312E

## 100% Solids Epoxy Saturant (Resin)



### FEATURES/BENEFITS

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

### PRODUCT DESCRIPTION

**M**ADEWELL® 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)

#### AVAILABLE COLORS:

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 mil square feet per gallon. Actual coverage depends on material being saturated. Allowances should be made for waste.

#### PACKAGING:

Normally stocked in 41 lb. two component kits (approximately 4.5 gallons per kit). Larger and smaller kit sizes available on special order.

#### SURFACE PREPARATION:

**Steel:** Apply only to clean, sound surfaces. All metal surfaces should be degreased or otherwise decontaminated prior to abrasive blast cleaning. Surfaces should be abrasive blast cleaned to a near white (NACE No. 2 or SSPC SP10) condition with a 2 to 4 mil anchor pattern depth.

#### Concrete and Other Cementitious Surfaces:

Concrete surfaces to be coated shall be free of laitance, grease, oil, and all other foreign materials. If required, the surfaces may be cleaned by sandblasting or other suitable mechanical means. Etching with muriatic acid may also be used to clean the surface, provided, however, that it is thoroughly broomed and flushed with a spray of fresh water to remove all salts. Surfaces should be dry and free of standing or flowing water when **MADEWELL 1312E** is applied. If surfaces are extremely porous, weak or deteriorated, **MADEWELL 927** Primer should be used to penetrate, seal and strengthen the surface prior to coating. See descriptive brochure.

Rough or deteriorated concrete should be smoothed and/or repaired using either **MAINSTAY ML-72** Sprayable Microsilica Mortar or **MADEWELL 1312P** Thixotropic Epoxy Putty. Refer to the applicable descriptive brochure for surface preparation and application instructions.

#### MIXING RATIO:

Mix components at a volume ratio of 2 parts A to 1 part B.

#### POT LIFE:

Approximately 45 minutes at 100° F. Pot life will be extended at lower temperatures and shortened when higher.

#### THINNING:

Thinning is not recommended. Use **MADEWELL 457** Thinner for equipment cleanup (see descriptive brochure).

#### PRIMING:

Consult a Madewell technical representative for procedures particular to your application. Concrete surfaces may be primed with **MADEWELL 927** Penetrating Epoxy Primer/Sealer – see descriptive brochure for application and surface preparation details.

#### APPLICATION:

This product is typically applied by hand using a high quality medium nap roller and ribbed fiberglass roller. Special application using air or airless spray application 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:**

MADWELL 1312E will cure to handle overnight at 75° F.

**CLEAN UP:**

MADWELL 457 Thinner is recommended to clean equipment (see descriptive brochure). Skin should be cleaned using warm soapy water or commercial hand cleaner.

**STORAGE:**

Store components in sealed containers in dry environment at moderate temperature conditions (< 80° F).

**SHELF LIFE:**

1 year, subject to reinspection thereafter.

**SAFETY:**

MADWELL 1312E contains epoxy resins that *MAY CAUSE EYE OR SKIN*

*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 “Material Safety Data Sheet” for this product. When using this product in a confined space or closed area, consult the current OSHA or 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 which the Seller believes to be reliable and are intended for use by per-

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