

Madewell® 1312P™ Trowelable Thixotropic Epoxy Surfacer & Void Filler



FEATURES/BENEFITS

SMOOTHS IRREGULAR SURFACES | MOISTURE TOLERANT
LOW SHRINKAGE | APPLIED BY TROWEL OR SQUEEGEE
EXCELLENT ADHESION | FAST-SETTING

PRODUCT DESCRIPTION

MADWELL 1312P is a 100% solids thixotropic epoxy putty for use in filling irregular surfaces such as voids and bugholes in concrete prior to the application of protective or reinforcing topcoats. This two component product can be applied by trowel or squeegee, can be applied to properly prepared concrete, steel, and plastic surfaces, and resists negative and positive-side hydrostatic pressure. The absence of solvent reduces shrinkage, cracking, and disbonding and eliminates problems related to solvent entrapment.

PRODUCT DATA

COMPOSITION:

100% solids, modified epoxy putty.

COLOR:

Medium gray.

THICKNESS:

Depends on surface roughness. Although this product can be used to form a protective film, its primary purpose is to fill voids and pits in steel and concrete. When applied by trowel, it is normal to "strike off" all excess material so that the only product remaining is that which remains in voids, pits, bugholes, etc.

COVERAGE:

Theoretical coverage is 1,604 mil square feet per gallon. Actual coverage depends on the condition of the surface being covered. Allowances should be made for waste.

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 **MADWELL 927** Penetrating Epoxy Primer. Deteriorated concrete may be restored using **MAINSTAY ML-72** or **ML-72F** Sprayable Microsilica Restoration Mortar followed by **MADWELL 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** Mortar – see applicable product data sheets or contact a Madewell Technical Representative for more information.

SMOOTHING MINOR SURFACE IRREGULARITIES:

Use **MADWELL 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 **MADWELL 927** Primer. See product data sheet for surface preparation and application instructions. Apply **MADWELL 1312P** to primed surfaces when the **MADWELL 927** Primer has cured dry to the touch (but as soon as possible thereafter to avoid contamination of the primed surfaces).

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.

Madewell 1312P Trowelable Thixotropic Epoxy Surfacer & Void Filler**WORKING TIME:**

Approximately 45 minutes at 80° F. Working time will be extended at lower temperatures and shortened when higher.

THINNING:

DO NOT THIN THIS MATERIAL UNDER ANY CIRCUMSTANCES.

APPLICATION:

MADWELL 1312P may be applied by trowel, squeegee, or glove (consult a Madewell Technical Representative for specific equipment recommendations and sources). Concrete surfaces should be coated while they are cooling down to avoid blisters caused by expanding gas within pores and/or air pockets within the concrete. It can sometimes be difficult to effectively fill voids in concrete due to entrapped air which tends to push the **MADWELL 1312P** back out. Blasting the concrete to completely open all voids and bugholes helps avoid this problem, however, several passes may be necessary to completely seal off all holes. Coating should be troweled, or otherwise applied, as smoothly as possible to avoid problems with topcoating after cure. When applying reinforced epoxy coatings such as **MADWELL 1312E** Epoxy Saturant (Resin) over the top of **MADWELL 1312P**, the glass reinforcement may be put in place while the **MADWELL 1312P** is still in its uncured state.

CURE TIME:

To Handle: overnight at 75° F.

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 & 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.

MADWELL 1312P 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 the 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:

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. **MADWELL PRODUCTS CORPORATION MAKES NO GUARANTEE OR WARRANTIES EXCEPT AS OTHERWISE PROVIDED IN WRITING AND DISCLAIMS ANY AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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