

# Madewell® 525

## Polycarbamide Coating



### FEATURES/BENEFITS

EXCELLENT GLOSS RETENTION	EXCELLENT COLOR STABILITY
RESISTS UV DEGRADATION	TOUGH AND FLEXIBLE
IMMERSION IN FRESH & SALT WATER	NON TOXIC, EASY TO CLEAN SURFACE

### PRODUCT DESCRIPTION

**M**ADEWELL 525 provides excellent performance for structures exposed to ultraviolet light. It is used for both new construction and rehabilitation of concrete surfaces on decks and floors and in freshwater and saltwater aquariums and pools. MADEWELL 525 is typically used as a topcoat over MADEWELL 1312S epoxy coating (including broadcast quartz and vinyl flake) to provide ultraviolet light resistance and additional durability and corrosion protection.

MADEWELL 525 is a polycarbamide based, high solids coating that can be cured at room temperature for a variety of plant, shop, and field applications. In addition to superior UV stability, MADEWELL 525 offers dramatically improved weather, corrosion, and chemical resistance. Because of its low permeability to oxygen, water, and chlorides, MADEWELL 525 remains unchanged after years of exposure to the elements allowing it to outperform such common coatings as alkyds, chlorinated rubber, acrylics, and siloxanes on a wide variety of substrates and service environments. Normally applied at 8 to 15 mils dry film thickness (DFT) in a single coat, its free spreading characteristics, fast set time, and easy cleanup help to minimize labor costs and down time.

### PRODUCT DATA

#### COMPOSITION:

93% solids, modified polycarbamide topcoat

#### FINISH:

Gloss.

#### AVAILABLE COLORS:

Standard: clear; custom colors available upon request.

#### THICKNESS:

8 to 15 mils DFT in a single coat, depending on the application. Consult a Madewell Technical Representative for specific thickness recommendations.

#### COVERAGE:

Approximately 220 square feet (ft<sup>2</sup>) per kit at 10 mils dry film thickness (DFT). Allowances should be made for waste.

#### PACKAGING:

Normally stocked in 1.5-gallon, two-component kits.

#### SURFACE PREPARATION:

*Steel:* Apply only to clean, sound surfaces. All metal surfaces should be de-

greased 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 Primer. Consult a Madewell Technical Representative for specific recommendations or see appropriate product data sheets for additional information.

Note: MADEWELL 525 is typically applied as a topcoat over MADEWELL 1312S (including broadcast quartz and vinyl flake) epoxy coating systems.

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

#### PRIMING:

Not required for steel surfaces. 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 3 parts A to 1 part B. Whenever possible, avoid mixing partial kits.

**MIXING:**

This 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 15 minutes at 70° F. Working time will be extended somewhat at lower temperatures and shortened when higher.

**THINNING:**

Typically not required for application by roller, brush, air or airless spray. Use a high quality urethane grade solvent such as methyl ethyl ketone (MEK) for thinning if needed.

**APPLICATION:**

This product is to be applied by trained workmen using specialized equipment. **MADEWELL 525** can be applied by conventional airspray and or rolling with a mohair roller. Contact a Madewell Technical Representative for specific application equipment recommendations.

**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:**

*Foot Traffic:* 4 hours at 75° F.

*Immersion Service:* 24 to 48 hours, depending on the chemical service and cure temperature.

**CLEAN UP:**

Use 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.

FLAMMABLE: KEEP AWAY FROM OPEN FLAME.

**MADEWELL 525** contains solvents, polycarbamide resins, and hardeners 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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