

# Madewell® 806™ Trowelable Flexible Joint & Manhole Chimney Seal



## FEATURES/BENEFITS

IMPACT RESISTANT	HIGH BUILD
EXCELLENT ADHESION	100% SOLIDS
PERMANENT FLEXIBILITY	ABRASION RESISTANT

## PRODUCT DESCRIPTION

**M**ADEWELL 806 is a 100% solids, chemically modified epoxy/urethane hybrid that is specifically designed for use in manhole chimneys and in expansion joints in concrete slabs, bridges, garages, balconies, and decks. Its unique multi-component resin system contributes to a number of superior properties, including toughness, excellent adhesion, and permanent flexibility. This trowelable product can be applied at thicknesses up to 1/2" on a vertical surface, thereby reducing application costs. The absence of solvent reduces shrinkage, cracking, and disbonding and eliminates problems related to solvent entrapment.

## PRODUCT DATA

### COMPOSITION:

100% solids, modified flexible epoxy/urethane joint sealant.

### FINISH:

Gloss.

### COLOR:

Gray. One component is black, and the other is white to produce a gray finished color, which is also an indicator of proper mixing.

### THICKNESS:

May be applied as an underlayment beneath Madewell laminate systems or installed as a trowelable joint filler up to several inches wide. Consult a Madewell Technical Representative for specific recommendations.

### SEALING MANHOLE FRAMES:

To seal the interior circumference of a 2' diameter manhole frame/chimney, **MADWELL 806** is typically applied at a thickness of 250 mils thick by 8" wide. When applied in this way, one 2-gallon kit will normally treat three manhole frames.

### PACKAGING:

Normally stocked in 2-gallon, two-component kits.

### 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** – 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 806** 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 1 part 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 com-

binning 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 20 minutes at 80° F. Working time will be extended at lower temperatures and shortened when higher.

**THINNING:**

Thinning is not recommended.

**APPLICATION:**

This product is to be applied by trained workmen. Both components must be preheated from 70° F to 90° F prior to application. The minimum application temperature is 50° F. **MADEWELL 806** may be applied by hand, brush, or trowel.

**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:**

*To Handle:* 16 hours at 70° 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.

**PHYSICAL CHARACTERISTICS/TEST DATA:**

*Elongation at break:* 67% at 70° F (ASTM D-412)

*Tensile strength:* 1,400 pounds per square inch (psi) (ASTM D-412)

*Abrasion resistance:* 25.4 milligram (mg) loss with a 1000 gram total load at 1,000 revolutions with a CS100 wheel (Tabor Abrasor Method).

*Shore A hardness:* 65

*Shore D Hardness:* 25

*Flexural Strength:* 1,600 psi (ASTM D-790)

**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.

**MADEWELL 806** 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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