

# Mainstay® DS-5 FS™

## Ultra Fast Set High Build Epoxy Coating



### FEATURES/BENEFITS

ABRASION RESISTANT	TOUGHNESS
100% SOLIDS—NO SOLVENT	IMPACT RESISTANT
HIGH BUILD—UP TO 125 MILS	HIGH MOISTURE CURE
GOOD VISIBILITY IN LOW LIGHT	SUPERIOR CHEMICAL RESISTANCE

### PRODUCT DESCRIPTION

**M**AINSTAY DS-5 FS is a 100% solids, chemically modified epoxy coating that utilizes a unique, multi-component curing system that contributes to a number of superior properties: toughness, abrasion and impact resistance, and improved chemical resistance. This system may be applied at thicknesses up to 125 mils or more in a single or multiple applications, thereby reducing application costs. The absence of solvent reduces shrinkage, cracking, and disbonding and eliminates problems related to solvent entrapment. MAINSTAY DS-5 FS can be used to coat surfaces that must be placed in immersion service in a very short period of time. MAINSTAY DS-5 FS is particularly well suited for use as a topcoat over (fully cured) MAINSTAY ML-72 Sprayable Microsilica Restoration Mortar (see section on Application).

### PRODUCT DATA

#### COMPOSITION:

100% solids, modified epoxy coating.

#### FINISH:

Gloss.

#### COLOR:

Off white; custom colors available.

#### THICKNESS:

50 to 125 mils in one or two coats, depending on the application. Consult a Mainstay Technical Representative for specific recommendations.

#### COVERAGE:

Approximately 16 square feet (ft<sup>2</sup>) per gallon at 100 mils. Allowances should be made for waste.

#### PACKAGING:

Normally stocked in 2-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 **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 Mainstay Technical Representative for specific recommendations or see appropriate product data sheets for additional information.

**MAINSTAY DS-5 FS** may be used to topcoat steel surfaces that have been previously painted. However, compatibility with and adhesion to existing coatings should be checked by the application of a test patch.

#### 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 prod-

uct data sheets or contact a Mainstay 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. Apply **MAINSTAY DS-5 FS** to primed surfaces when the **MADEWELL 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 product must be mixed in very small quantities (usually less than a pint at a time) using disposable cups,

wooden mixing sticks, and disposable 2" china bristle (chip) brushes. These inexpensive mixing materials are discarded with each batch. Do not mix more material than can be used within stated working times.

**WORKING TIME:**

Approximately two minutes at 80° Fahrenheit (F). The working time will be extended at lower temperatures and shortened when higher.

**THINNING:**

Thinning is not recommended.

**APPLICATION:**

**MAINSTAY DS-5 FS** may only be applied to hardened, fully cured substrates, such as hardened **MAINSTAY ML-72** Mortar or **MADEWELL 1312P** Epoxy Putty. The application of these two products by this technique should only be performed by trained workmen who are employed by a contractor that has been approved by Madewell Products Corporation to perform this type of work. Contact a Mainstay Technical Representative for additional information regarding specific application instructions, applicator training, and contractor licensing.

**CURE TIME:**

*Immersion Service:* 15 minutes at 70° F, depending on the chemical service and 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 & 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.

**MAINSTAY DS-5 FS** 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 cur-

rent 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. **MADEWELL 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.**

®Jiffy is a registered trademark of the Jiffy Mixer Company.