



## Chemical® Corporation

### FT-6160-FS® Epoxy Primer

#### Technical Data Sheet

#### PRODUCT DESCRIPTION

Freedom Chemical Corporation's FreedomTuff® 6160-FS is 100% solids, fast setting plural component epoxy primer and sealer for use on properly prepared concrete and wood surfaces and dries to touch within two (2) hours at 75° F (24° C).

FT-6160-FS Reduces Water Vapor emission levels of up to 4.5 pounds per 1000 square feet per 24 hours (5 grams per square meter per hour). For Water Vapor emissions from 4.5 pounds to 12 pounds use FT-6100-MT epoxy primer.

#### ADVANTAGES

- ✦ Chemical Resistant
- ✦ High Build
- ✦ High Strength
- ✦ Low Odor
- ✦ Meets SCAQMD Requirements 100% Solids
- ✦ Meets USDA Criteria
- ✦ Non-Blushing
- ✦ Reduces Water Vapor Emission Levels

#### RECOMMENDED USES

- ✦ Cold Storage Facilities
- ✦ Concrete Walkways and Balconies
- ✦ Food Processing Plants
- ✦ Industrial and Manufacturing Facilities
- ✦ Marine
- ✦ Parking Garage Structures
- ✦ Warehouse Floors

#### SURFACE PREPARATION

Surface preparation is the essential first stage treatment of a substrate before the application of any coating. The performance of a coating is significantly influenced by its ability to adhere properly to the substrate material. It is generally well established that correct surface preparation is the most important factor affecting the total success of surface treatment. The presence of even small amounts of surface contaminants, oil, grease, oxides etc. can physically impair and prevent coating adhesion to the substrate.

Be sure that surfaces are clean, dry, and sound and given sufficient profile to obtain adequate product adhesion.

Remove all dust, efflorescence, laitance, salts, curing compounds, dirt, oil, form release agents, and other foreign matter.

Perform an adhesion test prior to starting any coating project.

Concrete should be cured for a minimum of 28 days prior to product application and have at least 3000 psi compressive and 220 psi tensile strength.

#### PACKAGING 2:1 RATIO

1½ Gallon Kit: (1 gallon/3.785 liters part-A) and (½ gallon/1.892 liters part-B).

3 Gallon Kit: (2 gallon/7.570 liters part-A) and (1 gallon/3.785 liters part-B).

#### COLOR

Clear - Due to its chemical composition, FT-6160-FS will discolor.

Colors are available, contact Freedom Chemical Corporation for pricing.

#### COVERAGE RATE

100 to 300 square feet per gallon (9.29030m<sup>2</sup> to 27.8709m<sup>2</sup> per liter), FT-6160-FS is applied at a theoretical 5 mils per coat (0.127mm) do not puddle. Coverage rates may vary based on the roughness and porosity of the concrete.

#### MIXING PROCEDURES

Blend 2 parts-A with 1 part-B by volume into a clean container.

Blend FT-6160-FS for 3 to 4 minutes at a slow speed using a drill motor and paddle making sure not to encapsulate any air.

After mixing thoroughly, immediately pour the FT-6160-FS onto the horizontal surface and spread evenly over the entire surface using trowel or squeegee, back roll, if necessary.

Mix entire/full package containers of multi-component materials. Do not measure nor mix partial containers of multi-component materials.

#### APPLICATION

FT-6160-FS can be applied by trowel, roller or squeegee, do not puddle.

The *GuardianDeck®* and *FreedomDeck®* systems require an aggregate broadcast immediately of a washed dry rounded, 20 mesh (841 microns, 0.033110") sand or less with 6.5 Moh's minimum hardness into the wet primer.

Do not apply more primer to substrate than can be coated the same day, under ideal conditions (75° F or 24° C); this would be within six (6) hours of application. If primer is not coated within the allotted time, re-apply primer.

Apply coating to FT-6160-FS when surface is dry to the touch, do not exceed 8 hours.

Application temperature should be between 40° F (4.44° C) and 95° F (35° C). Insure that the outside temperature is at least 6° (-14.44) above the dew point and rising.

Working time for FT-6160-FS is approximately 20 minutes.

#### EQUIPMENT CLEAN UP

Immediately clean equipment with an environmentally safe solvent, as permitted by local regulations. Cured or dried material may be removed by mechanical means.

## SPECIFICATION ASSISTANCE

Contact Freedom Chemical Corporation for specification assistance.

Jobsite visits by Freedom Chemical Corporations employees or its independent agents are solely for the purpose of determining qualification for warranty.

## STORAGE

FT-6160-FS has a shelf life of 1 year from the date of manufacture, in original, factory sealed containers.

Never store directly on concrete surface, always store on pallets.

Avoid freezing temperatures.

Rotate stock regularly.

## LIMITATIONS

The end user should check the suitability of this product prior to its application.

Excess moisture vapor in concrete slabs may result in primer and/or coating to delaminate, discolor or cause improper curing.

Apply coating within 8 hours of application of FT-6160-FS. Do not open until ready to use.

Freedom Chemical assumes no liability for substrate defects.

Substrates that have previously been coated are subject to absorption, which may affect the adhesion of a new coating.

Rain, high temperatures and humidity can significantly affect pot life and the cure time.

Low temperatures and humidity can extend the cure time.

Not UV Stable FT-6160-FS will discolor.

## WARNING

FT-6160-FS contains Epoxy Resins.

Caution this product becomes flammable with addition of acetone.

## TECHNICAL DATA

MIX RATIO BY VOLUME.....	2:1
POT LIFE @ 75° F (24° C) @ 50% R.H.....	12 MINUTES
GEL TIME@ 75° F (24° C) @ 50% R.H.....	26 MINUTES
TACK FREE TIME.....	2-3 HOURS
VISCOSITY, AT 75° F (24° C) PART-A AND B COMBINED....	1600-1800 CPS
TENSILE STRENGTH.....	7550PSI
SHORE HARDNESS, ASTM D-2240.....	83D
ABRASION RESISTANCE @ 1000 CYCLE'S WEIGHT LOSS.....	0.036 GMS
ADHESION, ASTM D-4541 (DRY CONCRETE).....	>800 PSI
MAR RESISTANCE.....	1.3 KG
PENCIL HARDNESS.....	3H
IMPACT RESISTANCE.....	15/2 INCH LBS
SPECIFIC GRAVITY,	
PART A.....	1.09
PART B.....	1.07
TOTAL SOLIDS, WEIGHT, ASTM D-2369.....	100%
TOTAL SOLIDS, VOLUME, ASTM D-2697.....	100%
VOC CONTENT ASTM D-2369-81.....	0 G/L

NOTE: THE END USER SHOULD CHECK THE SUITABILITY OF THIS PRODUCT PRIOR TO ITS USE.

***Incredible Stuff, Friendly People and Exceptional Service™***

LIMITED WARRANTY: Read all information in the product data sheets, and material safety data sheets (MSDS) before applying material. Product information and instructions are subject to change without notice. Contact your Freedom Chemical Corporation agent or visit our website for current product information and instructions. Products manufactured by Freedom Chemical Corporation are free of defects and will meet Freedom Chemical Corporations current published physical properties. There are no other warranties given by Freedom Chemical Corporation of any kind implied, or expressed, including any warranty of fitness for a particular purpose, and/or merchantability in connection with this product.

DISCLAIMER: The data and information contained herein doesn't create a material or sales specification. The information contained in this data sheet does not guarantee that any hazards listed herein are the only one(s) which may occur. Product and application instructions are provided for the purpose of establishing a general profile and that they will meet Freedom Chemical Corporations current published physical properties. Freedom Chemical Corporation makes no claim as to the accuracy of the information, but every effort has been made to ensure the accuracy of information contained in the Technical Datasheet. Reproduction of the information in this document, either as a whole or in part, is forbidden unless written permission has been obtained from Freedom Chemical Corporation.

12026 CENTRALIA ROAD, SUITE C, HAWAIIAN GARDENS, CA 90716 • (562) 343-9697 • FAX (562) 343-9327  
GEORGIA • (678) 259-9283 • [www.freedomchemicalusa.com](http://www.freedomchemicalusa.com) • © OCTOBER 2011 FREEDOM® CHEMICAL CORPORATION