



Chemical® Corporation

FT-6175® Epoxy Primer

Technical Data Sheet

PRODUCT DESCRIPTION

Freedom Chemical Corporation's FreedomTuff® 6175 is 100% solids, plural component epoxy primer used on properly prepared metal and steel surfaces. On concrete surfaces FreedomTuff® 6175 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
- ✦ Excellent Adhesion
- ✦ 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-6175 will discolor.

Colors are available, contact Freedom Chemical Corporation for pricing.

COVERAGE RATE

100 to 300 square feet per gallon (9.29030m² to 27.8709m² per liter), FT-6175 is applied at a theoretical 5 mils per coat (0.127mm) do not puddle.

MIXING PROCEDURES

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

Blend FT-6175 for 3 to 4 minutes at a slow speed using a drill motor and paddle making sure not to encapsulate any air.

If necessary add up to ½ gallon (1.90 liters) of acetone per 1½ gallon (5.685 liters) kit as permitted by local regulations, remix product immediately, carefully scraping the sides and bottom of the pail during mixing. Thinned FT-6175 should be applied at 5 mils (0.127mm) per coat or less, do not puddle.

After mixing thoroughly, immediately pour the FT-6175 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-6175 can be applied by trowel, roller or squeegee, do not puddle.

Do not apply more primer to substrate than can be coated the same day, or within eighteen (18) hours of application at (75° F or 24° C). If primer is not coated within the allotted time, re-apply primer.

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-6175 is approximately 20 minutes.

Apply coating to FT-6175 when surface is dry to the touch, do not exceed 24 hours.

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-6175 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 24 hours of application of FT-6175.

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-6175 will discolor.

WARNING

FT-6175 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.....	16 MINUTES
TACK FREE TIME.....	4-5 HOURS
VISCOSITY, AT 75°F (24°C) PART-A AND B COMBINED.....	1800 CPS
DRY FILM THICKNESS PER COAT (IF THINNED).....	5MILS/0.127MM
TENSILE STRENGTH.....	7500PSI
SHORE HARDNESS, ASTM D-2240.....	85D
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
ADHESION, ASTM D-4541 (DRY CONCRETE).....	>800 PSI

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.

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