



## FREEDOMTUFF® PRODUCT INFORMATION BULLETIN

**FREEDOMTUFF® 6600-MVR** is a moisture vapor reducing primer designed to treat new or existing concrete. It is a 100% solids plural component epoxy, alkali-resistant and can reduce moisture vapor emission levels from 25 pounds to less than 3 pounds per 1000 square feet. Use only on properly prepared new or existing concrete.

### ADVANTAGES

- ✦ 0 VOC's - 100% solids
- ✦ Applied at 50° F (10° C)
- ✦ Meets USDA Criteria
- ✦ No noxious odors
- ✦ USGBC LEED, EQ Credit 4.2 AND 4.3: Low-emitting VOC Compliant Materials

### USES

- ✦ Under Non-Breathing Flooring Systems
- ✦ Polyurethanes
- ✦ Polyureas
- ✦ Rubber
- ✦ Sheet Vinyl
- ✦ Solid Backed Carpet
- ✦ Tile
- ✦ Vinyl Composition Tile (VTC)

### PROFESSIONAL USE ONLY

Read and understand all the information contained in the Product Information Bulletin's, SDS's and product labels prior to starting any project. Nothing contained in any of Freedom® Chemical Corporation's materials relieves the end user of the obligation to read and follow the warnings and instructions for each of Freedom® Chemical Corporation's products.

### PREPARATION

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.

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 established that correct surface preparation is the most important factor affecting the total success of surface treatment. Surfaces will be clean, dry, and sound, the presence of even small amounts of surface contaminants, dust, efflorescence, laitance, salts, curing compounds, dirt, oil, form release agents, and other foreign matter can physically impair and prevent coating adhesion to the substrate.

Shot Blast concrete between CSP 3 - 7.

Grinding is permitted only in areas that are inaccessible to shot blasting equipment.

### COLOR

Clear, Slightly Yellow Glossy - Due to its chemical composition, FT-6600-MVR primer will discolor.

### COVERAGE RATE

Freedom® Chemical Corporation's coverage rates for all products are

approximate and vary based on type of substrate, substrate porosity, and roughness and size of broadcast aggregate.

100 square feet per gallon (9.29030m<sup>2</sup>), FreedomTuff® 6600-MVR is applied at a minimum theoretical 16 mils per coat (0.4064mm) do not puddle.

FreedomTuff® 6600-MVR may require more than one coat to reduce the moisture vapor emission level.

### PACKAGING 2:1 RATIO

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

### PRIMER

FreedomTuff® primer is required on all substrates, except on properly prepared steel.

### MIXING

Do not mix partial containers of multi-component materials.

Do not dilute under any circumstances.

Blend 2 Parts-A with 1 Part-B by volume into a clean container.

Adequately blend FreedomTuff® primer for 3 to 4 minutes at a slow speed using a drill motor and paddle making sure not to encapsulate any air.

### APPLICATION

Throughout the application the sand surface must be clean and dry.

For optimum results proceed with application while air temperatures are between 45° F (7.22° C) and 95° F (35° C). Insure that the outside temperature is at least 6° F (-14.44° C) above the dew point and rising. Apply while the outside temperature is descending, high or Low temperatures and humidity can significantly affect the cure time and pot life.

FreedomTuff® primer is required on all substrates, except on properly prepared steel (immersion requires a primer).

After mixing thoroughly, immediately pour the FreedomTuff® primer onto the horizontal surface and spread evenly over the entire surface using trowel or squeegee and back roll, do not puddle.

Do not apply more primer to the substrate than can be coated within eighteen (18) hours of it becoming tack free.

FreedomTuff® primer will require mechanical abrasion once it exceeds the recoat window.

Apply coating to FreedomTuff® primer when surface is dry to the touch.

High or Low temperatures and humidity can significantly affect pot life and extend the cure time.

FreedomTuff® 6600-MVR is used on concrete that is less than 28 days old, on grade surfaces and where negative side moisture vapor is present.

Apply FreedomTuff® 6600-MVR seven (7) days after concrete placement at 75° F.

FreedomTuff® 6600-MVR can be applied in one or more coats.

All Expansion Joints should be honored.

Non-moving joints and cracks should be cleaned and/or routed and filled with FreedomTuff® 6600-MVR mixed with an appropriate thickening agent prior to the application of the FreedomTuff® 6600-MVR.

FreedomTuff® 6600-MVR can be applied by trowel, roller or squeegee, do not puddle.

Working time for FreedomTuff® 6600-MVR is approximately 15 minutes.

#### SPECIFICATION AND FIELD ASSISTANCE

Contact Freedom® Chemical Corporation for assistance.

Jobsite visits by Freedom® Chemical Corporation's employees or its independent agents are solely for determining qualification for warranty.

#### DISPOSAL

All spilled material, unused contents, empty containers and secondary containment spills/leaks must be cleaned up and disposed of in accordance with local, state and federal regulations.

#### LIMITATIONS

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

Freedom® Chemical Corporation 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. Adhesion to substrate should be checked prior to starting any coating project.

FreedomTuff® primers have a shelf life of 1 year from the date of manufacture, in factory-sealed containers.

FreedomTuff® primers are not UV Stable.

#### PRODUCT QUALITY AND STORAGE

To maintain product quality storage and application temperatures should be between 45° F (7.22° C) and 95° F (35° C). Insure that the outside temperature is at least 6° F (-14.44° C) above the dew point and rising, for best results apply while the outside temperature is descending.

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

Avoid freezing temperatures.

Rotate stock regularly.

Do not open until ready to use and keep containers sealed tightly.

#### TESTING

Perform an adhesion test prior to starting any coating project.

Substrate adhesion test should be performed seven days after application. All testing should be performed by a qualified testing agency. Freedom® Chemical Corporation is not responsible for testing.

#### FREEDOMTUFF® 6600-MVR TYPICAL PROPERTIES

MIX RATIO BY VOLUME	N/A	2A:1B
GEL TIME (150G MASS) @ 77° F (25° C) @ 50% R.H.	N/A	15 MINUTES
SET TIME @ 77° F (25° C) @ 50% R.H	N/A	2:50 (H: MIN)
DRY TIME@ 77° F (25° C) @ 50% R.H	N/A	3:55 (H: MIN)
HARDNESS: SHORE D	ASTM D-2240	70
TENSILE STRENGTH	ASTM D-695	4200 PSI
MIXED VISCOSITY, @ 77° F (25° C)	N/A	732 CP
VOLATILE ORGANIC COMPOUNDS	ASTM D-3960	0 LB/GALLON, 0 GRAMS/LITER
DRY FILM THICKNESS PER COAT	N/A	16 MILS/0.406MM
ADHESION	ASTM D-7234	>520 PSI CONCRETE FAILURE
ALKALI-RESISTANT	ASTM D-1308	PASSED

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

Read all the information in this product information bulletin, and material safety data sheet (MSDS) before applying any material. The information contained herein is for purposes of identifying the product and does not constitute a warranty or guaranty that the product will conform to this description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors. All published information and specifications are subject to change without notification. Technical data shown in product data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors. All recommendations, statements and technical data contained in this data sheet are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind. Satisfactory results depend upon many factors beyond the control of Freedom® Chemical Corporation. User shall rely on their own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from their direct use, indirect use or consequential to their use of the product. Freedom® Chemical Corporation shall not be liable to the buyer or any third party for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. Products manufactured by Freedom® Chemical Corporation are free of defects for a period of one (1) year, liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the materials in question. † Freedom® Chemical and FreedomTuff® are trademarks registered in the US Patent and Trademark Office. ‡ The marks of Freedom® Chemical Corporation, its divisions, slogans, emblems, other marks appearing in this document are the trademarks and/or service marks of Freedom® Chemical Corporation, its subsidiaries, affiliates or licensors Copyright© January 2019 Freedom® Chemical Corporation. All Rights Reserved.