



## FREEDOMTUFF® PRODUCT INFORMATION BULLETIN

**FREEDOMTUFF®9600GR** is a 100% solids two-component hand applied polyurethane repair system for concrete and asphalt repair. It has very good chemical and abrasion resistance and excellent impact resistance. FreedomTuff® 9600GR is used for repairing horizontal voids/cracks and spalls in concrete & asphalt, DOT highways and Bridge Header repairs, Bearing Pad repairs and as a Grout to encapsulate Railroad track for Light Rail applications.

### ADVANTAGES

- ✦ Excellent abrasion resistance and chemical resistance
- ✦ Excellent for low & high temperature applications
- ✦ Meets DOT/FAA criteria
- ✦ Low odor
- ✦ 0 – VOC's, 100% solids
- ✦ Cold applied – safe to use
- ✦ Open to pedestrian vehicular traffic in 1 hour, at 75° F(23.88° C)
- ✦ Thermal Stability – Excellent
- ✦ USGBC LEED, EQ Credit 4.2 AND 4.3: Low-emitting VOC Compliant Materials

### USES

- ✦ Spall & Large Crack Repair in Concrete & Asphalt
- ✦ Pile Cap Grout
- ✦ Bridge Bearing Pad Repair & Replacement
- ✦ RailRoad Crossing repairs
- ✦ Encapsulating Rail for Transit repairs

### 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 relieve 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 28 days\* However, given the right circumstances and if the concrete surface has means of venting moisture other than through the repair, FT 9600GR can be applied over Green Concrete. Contact manufacturer for details.

Surface preparation is the essential first stage treatment of a substrate before the application of any repair material. Follow ICRI preparation guidelines and consult manufacturer as required.

Substrate must be clean, dry and free of laitance and oils/grease etc..

If pressure washing allow to dry to an SSD state before applying  
If grinding or abrading, vacuum dust and debris off the repair area.  
COLOR – Concrete grey or call for special requests.

### COVERAGE RATE

Freedom® Chemical Corporation's coverage rates for all products are approximate and dependent upon aggregate load for extension. Neat without aggregate extension: 7.5g per cubic foot. Full aggregate extension: 4g per cubic foot. Recommended aggregate: kiln dried sand >12grit and/or recycled crushed glass

### PACKAGING

3 Gall Kit: 1 gall (3.570-liters Part-A) and 2 galls (7.570-liters Part-B).

### PRIMER

Select appropriate primer from individual Product Information Bulletin's. FreedomTuff® primer is not always required but recommended on damp surfaces.

### MIXING

Do not mix partial containers of multi-component material and do not dilute

FreedomTuff® 9600GR Part-B should be mixed individually prior to combining Part A. If using aggregate, add the aggregate into the Part A gradually mixing until the aggregate of choice is completely wetted out. Add in the Part B and mix for 90 seconds and ensure that all corners are scraped. Use a mechanical mixer at medium speed. Mix until a homogeneous mixture and color is obtained.

Open or working time at 70f: 10 to 15mins Less working time at higher temps and more working time at low temps.

### APPLICATION

Pour immediately into the repair area after mixing, once Part A & Part B are mixed the cure process has started. At the gel stage the system is not able to be poured but can be dressed with a decorative or non-skid broadcast at this point.

Do not attempt to trowel or "work" the material if using for a self-leveling repair as the FT-9600GR will find its own level. If mixing the maximum load of aggregate and creating a slope-grade repair, use a plastic trowel to finish the to the desired state.

SPECIFICATION AND FIELD ASSISTANCE  
 Contact Freedom® Chemical Corporation for assistance.

DISPOSAL  
 All spilled material, unused contents of containers, 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.

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

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

PRODUCT QUALITY AND STORAGE  
 Shipping and storage temperatures for Part-A and Part-B is between 65° F - 90° F (18° C - 32.22° C) at or below 50% Relative Humidity, avoiding freezing temperatures. If shipping or storage temperatures should fall below 65°F (18°C), some crystallization could result. Unless proper action is taken to re-form the original solution, subsequent dimerization will proceed quickly and will deteriorate the assay of the product.

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

**FREEDOMTUFF® 9600GR Properties**

	<i>method/units</i>	<i>FT-9600GR</i>
<b>Hardness</b>	ASTM D-2240	D80 ± 5
<b>Open Time</b>	ASTM D7997	20-30'
<b>Gel Time</b>		25-35'
<b>Tack Free Time</b>		40-60'
<b>Foot Traffic</b>		60'
<b>Tensile Strength (psi)</b>	ASTM D-412	6,000 ± 500
<b>Ultimate Elongation (%)</b>	ASTM D-412	12 ± 2
<b>Die-C Tear (pli)</b>	ASTM D-624	150 ± 20
<b>SplitTear (pli)</b>	ASTM D-624	50 ± 10
<b>Compression Strength (psi)</b>	ASTM C-579	> 5,000
<b>Viscosity Iso</b>	cPs	200 ± 50
<b>Viscosity Poly</b>	cPs	3,500 ± 500
<b>S.G. Iso</b>	g/cm3	1.20 ± 0.05
<b>S.G. Poly</b>	g/cm3	1.05 ± 0.05
<b>VOC</b>	(combined A+B)	0 %

*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 that the product will conform to this description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors. Product information bulletins, recommendations, statements, and information contained herein 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, either expressed or implied. It is the user's responsibility to satisfy themselves, by their own information and tests, to determine suitability of the product for their own intended use, application and job situation and the user assumes all risk and liability resulting from their own use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third party for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of Freedom® Chemical Corporation. Typical properties and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Performance results were obtained in a controlled environment and Freedom® Chemical Corporation makes no claim that these tests or any other tests accurately represent all environments. 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© March 2015 Freedom® Chemical Corporation. All Rights Reserved. All published information is subject to change without notice.