

FREEDOMTUFF® PRODUCT INFORMATION BULLETIN

FREEDOMTUFF® 1595 is a two-component elastomeric spray applied aliphatic that is color stable for use as a protective or waterproof coating that is abrasion, and impact resistant. Used on vertical or horizontal surfaces and forms a continuous (seamless) membrane of a desired thickness on concrete, metal, fiberglass and geotextile fabrics. Its quick gel and set time allow for single or multiple applications without appreciable sagging and is relatively insensitive to moisture, allowing application in most temperatures.

ADVANTAGES

- ♣ 0 VOC's 100% solids
- Color stable
- No noxious odors
- USGBC LEED, EQ Credit 4.2: Low-emitting VOC Compliant Materials

USFS

- Waterfeatures
- Food & Beverage

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

If applied over concrete, 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.

Concrete should be shot blasted to a CSP 4-6.

Profile steel between 4-6 mils.

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

COLOR

Black, White, Grey and Neutral –add color to side B only. Non-standard colors available upon request.

FreedomTuff® 1595 is UV Stable.

COVERAGE RATES

Freedom® Chemical Corporation's coverage rates for all products is approximate and vary based on type of substrate, substrate porosity, and roughness.

1 gallon (3.79 liters) of FreedomTuff® 1595 will cover approximately 1600 square feet 1 mil (0.025mm) thick and can be applied in one or more passes to achieve a desired thickness.

PACKAGING

52 gallons Part-A (Isocyanate) and 52 gallons Part- B (Resin) packaged in 55 gallons drums.

MIXING PROCEDURES

Do not dilute under any circumstances.

Adequately blend FreedomTuff® 1595 Part-B (Resin) with air driven power tools until the mixture and color is consistent making sure not to encapsulate any air.

APPLICATION

Select appropriate FreedomTuff® primer, primer is required on all Substrates, except on properly prepared steel.

Do not apply more primer to substrate than can be coated the same day.

FreedomTuff® 1595 is applied using a plural component, high pressure 1:1 ratio heated, spray equipment.

For optimum results proceed with application while air and substrate temperatures are between 32° F (0° C) and 104° F (40° C) 6° (-14.44° C) above the dew point and rising.

Prior to application: Precondition both Part-A and Part-B to 75° F - 80° F (24° C - 27° C) before applying.

Fit part-A with a desiccant drying device.

Proportioner Conditions:

- Capacity minimum 20 lbs. per minute
- Static pressure 2800 3000psi
- Spraying pressure 2500psi minimum
- Pressure balance 100 variance desirable
- 300 psi variance maximum
- Temperatures preheaters & hose 170°F (77° C) each

FreedomTuff® polyurea's should be sprayed in a smooth pattern, to establish uniform thickness and appearance (crosshatch pattern).

When a FreedomTuff® polyurea is applied in sections, each application must overlap the previous one within 0-6 hours by a minimum four (4") to a neat straight line.

Recoat window is within 0-6 hours of application, if not recoated within 0-6 hours, sand, prime and re-apply FreedomTuff® Polyureas.

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 of containers, empty containers and secondary containment spills and leaks must be cleaned up in accordance with local, state and federal regulations.

LIMITATIONS

Do not place coating over metal pan decks vented or unvented, split slab membranes, or other locations containing trapped moisture without prior written approval from Freedom ® Chemical Corporation.

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.

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

Excess moisture vapor in concrete slabs may result in the polyurea

and/or coating to delaminate, discolor or cause improper curing.

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

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

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.

TESTING

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® 1595 TYPICAL PROPERTIES

TABOR ABRASION 12.5 MG @ 1000 CYCLES (CLEAN WHEELS @ 0 AND 500) WITH H-17 WHELLS

MIX RATIO BY VOLUME	N/A	1A:1B
HARDNESS: SHORE D	ASTM D-2240	60 D
TEAR RESISTANCE, DIE C	ASTM D-624	668 PLI
TENSILE STRENGTH	ASTM D-412	3080 PSI
ELONGATION	ASTM D-412	353%
SOLIDS	ASTM D-2697	100%

VISCOSITY AT 72°F (22.222°C) BROOKFIELD PART A 1116 (63/100) PART B 386 (63/100) VOLATILE ORGANIC COMPOUNDS ASTM D-2369-81 0 LB/GALLON, 0 GRAMS/LITER

GEL TIME @ 150° (66° C) (THICKNESS AND SUBSTRATE TEMP. SENSITITIVE) 15 – 30 SECONDS TACK FREE TIME (THICKNESS AND SUBSTRATE TEMP. SENSITITIVE) 45 – 90 SECONDS

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 to set procedures conducted in laboratory conditions. Actual field performance and test results will warry 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 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 circuit use, indirect use indirect use, indirect use indirect use indirect uses indirect use indirect