

FREEDOMTUFF™ FT-4111**PRODUCT DESCRIPTION**

FT-4111 is a two component, 100% aliphatic polyaspartic polyurea clear topcoat with excellent UV stability and gloss retention. **FT-4111** may be spray or roller applied. It is insensitive to moisture and can be applied in one or more passes.

USES

- Industrial
- Correctional Facilities
- Manufacturing Facilities
- Industrial Flooring
- Residential Flooring
- UV-stable Topcoats
- High Wear Environments

ADVANTAGES

- Abrasion resistant for high wear environments
- Chemical resistance
- Excellent gloss retention
- UV stable
- High hardness
- Impact strength
- No noxious odors
- Excellent to color

COLOR

Clear

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Value
Mix Ratio by Volume	NA	1:1
Mix Ratio by Weight	NA	53 A : 47 B
Viscosity @ 75°F	Brookfield	A 1,300 CPS ± 300 B 1,100 CPS ± 300
Specific Gravity @ 75°F	Gardco Density Cup	A 1.15 ± 0.10 G/CM ³ B 1.00 ± 0.10 G/CM ³
Gel Time @ 75°F		25 ± 5 minutes
Tack Free Time @ 68°F	ASTM D1640	1 hour
Recoat Window	Internal	6 hours
Pedestrian Traffic	Internal	12 hours
Vehicular Traffic	Internal	24 hours
Solids Content	ASTM D2697	100%
VOC	ASTM D2369	0 g/L
Shore Hardness	ASTM D2240	75D ± 5

The values stated in this Product Data Sheet are based on system processing under controlled laboratory conditions. Equipment configuration and/or field application conditions may produce variances in the installed product values

PACKAGING**2-gallon kit:**

- Part A: 1 gallons liquid
- Part B: 1 gallons liquid

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SURFACE PREPARATION

Provide clean, dry, and sound concrete substrate. Concrete shall be allowed to cure for a minimum of 28 days.

Prepare concrete surfaces in accordance with SSPC-SP13/NACE No. 6 and achieve a Concrete Surface Profile of at least 3, measured using ICRI CSP Chips.

After surface preparation and prior to the application of Freedom Chemical Corporation products, test surface tensile strength of prepared concrete surfaces in accordance with ASTM D7234 and/or ASTM C1583. Minimum surface tensile strength shall be 300 psi. Refer to SSPC-SP13/NACE No. 6, Section 6, Table 2 for additional information.

Grinding is only permitted in areas that are inaccessible to standard abrasive blast equipment.

COVERAGE RATES

Material coverage rates shall be in accordance with project specification requirements or Freedom Chemical Corporation's Installation Procedure document(s), whichever is more stringent.

MIXING

Do not mix partial containers of multi-component materials. Do not dilute under any circumstances. Adequately mix FreedomTuff® FT-4111 Part-B separately before combining. Once part-A and Part-B are combined mix again until the mixture and color are consistent. FreedomTuff® FT-4111 should be used within 10 minutes of mixing.

APPLICATION

Throughout the application the prepared surface must be clean and dry. For optimum results proceed with application while air and substrate temperatures are between 60°F and 90°F. Apply FreedomTuff® FT-4111 onto the horizontal surface and spread evenly...

APPLICATION CONT...

...over the entire surface using 1/8" notched squeegee, then back roll using a 1/4" mohair roller with a phenolic resin core. On vertical surfaces use a 1/4" mohair roller with a phenolic resin core Recoat window is within (24) twenty four hours of application.

CLEAN UP

User is responsible for reading, understanding, and following all recommendations on SDS. Dispose of all packaging and containers in accordance with local, state, and federal laws and regulations. Excess liquid materials should be mixed and allowed to cure. Once cured, dispose of cured material in accordance with local, state, and federal laws and regulations.

LIMITATIONS

Care shall be taken when applying Freedom Chemical Corporation products over substrates containing trapped moisture and/or where moisture vapor drive is present (i.e., metal pan decks, split slab membranes, etc.). Refer to Installation Procedure document(s) for substrate treatment prior to placement of any coatings.

Excess moisture vapor in concrete slabs may cause polyurea coating to delaminate, discolor, and/or cure improperly.

SHELF LIFE & STORAGE

Shelf life is one (1) year from the date of manufacture in original, unopened, factory-sealed containers under specified storage conditions.

Shipping and storage temperatures is 65°F to 90°F at (or below) 50% Relative Humidity. Avoid freezing temperatures. Do not store containers directly on ground. Always store on pallets or otherwise elevated.

Do not open containers until ready to use. Partially filled containers should be purged of air using nitrogen blanketing and sealed tightly when not in use.