PRODUCT DATA SHEET

FREEDOMTUFF™ FT-4041

PRODUCT DESCRIPTION

FT-4041 is a two component 100% solids butyl modified polyurethane topcoat with excellent chemical resistance, designed for commercial, industrial, and manufacturing conditions. FT-4041 can be spray or roller applied for use on concrete, wood, and metal surfaces.

USES

- Decorative Ponds
- Catch Basins
- Fountains
- Reservoirs
- Cooling Towers
- High Wear Environments

ADVANTAGES

- Abrasion resistant for high wear environments
- Chemical resistance
- 100% Solids
- Impact strength
- No noxious odors

COLOR

Blue, Grey, Black (custom colors available with minimum order size)

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Value
Mix Ratio by Volume	NA	0.4:1
Mix Ratio by Weight	NA	35 A : 65 B
Viscosity @ 75°F	Brookfield	A 2,250 CPS ± 300 B 3,100 CPS ± 300
Specific Gravity @ 75°F	Gardco Density Cup	A 1.15 ± 0.10 G/CM^3 B 1.008 ± 0.10 G/CM^3
Gel Time @ 75°F		19 ± 5 minutes
Tack Free Time @ 68°F	ASTM D1640	1 hour
Recoat Window Min	Internal	2 hours
Recoat Window Max	Internal	24 hours
Tensile Strength	ASTM D412	470 psi
Elongation	ASTM D412	164%
Modulus of Elasticity	ASTM D412	485 psi
Tear Strength, Die C	ASTM D624	70 pli
Solids Content	ASTM D2697	100%
VOC	ASTM D2369	0 g/L
Shore Hardness	ASTM D2240	75A ± 5
Water Vapor Permeance	ASTM E96, Procedure B	0.3 US Perms

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

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SURFACE PREPERATION

Concrete Surfaces: Provide clean, dry, and sound concrete substrate. Concrete shall be allowed to cure for a minimum of 28 days. If less than 28 days, a PH-resistant and moisture vapor reducing primer will be required. Contact Freedom Chemical Company Technical Service for additional information.

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.

Metal Surfaces: Provide clean, dry, and sound metal substrate. Prepare metal surfaces in accordance with SSPC-SP10/NACE No. 2 and achieve a 4-6 mil blast profile, measured using a Surface Profile Gauge.

All Surfaces: 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.

PACKAGING

1.4-gallon kit:

- Part A: 0.4 gallons liquid
- Part B: 1 gallons liquid

MIXING & APPLICAITON

Refer to appropriate Installation Procedure document(s) for detailed instructions.

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.

New Section

New Section Content