PRODUCT DATA SHEET

FREEDOMTUFF™ FT-6170

PRODUCT DESCRIPTION

FT-6170 is a two component 100% solids epoxy primer based on cashew nutshell liquid. FT-6170 may offer improved adhesion to a variety of challenging substrate conditions including damp or green concrete, as well as concrete with oil contamination on the surface†. FT-6170 also offers improved cure times at lower temperatures while maintaining a workable pot life.

USES

- Concrete
- Masonry
- Wood
- Metal (Ferrous)

ADVANTAGES

- 100% solids
- High strength
- No noxious odors
- Non-corrosive
- Non-blushing
- Based on cashew nutshell liquid (renewable)
- USGBC LEED, EQ Credit 4.2: Low-emitting VOC Compliant Materials

COLOR

Clear

Note: *Due to its chemical composition, product will discolor with exposure to sunlight and/or UV.*

†*When compared to FT-6160 epoxy primer.*

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Value
Mix Ratio by Volume	NA	2:1
Pot Life @ 77°F	ISO 9514	25 minutes
Tack Free Time @ 77°F	ASTM D1640	4 hours
Recoat Window	Internal	18 hours
Solids Content	ASTM D6511	100%
VOC	ASTM D6511	<5 g/l
Adhesion to Concrete	ASTM D7234	>150 psi

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

DRYING TIMES

Primer Only

Temperature	To Touch	Recoat Maximum
77°F	4 hours	12 hours
50°F	12 hours	24 hours
35°F	20 hours	48 hours

Primer + Accelerator

Temperature	To Touch	Recoat Maximum
77°F	2.5 hours	8 hours
50°F	7 hours	24 hours
35°F	12 hours	24 hours

FREEDOMTUFF™ FT-6170

SURFACE PREPARATION

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

3-gallon kit:

- Part A: 2 gallons
- Part B: 1 gallons

MIXING & APPLICATION

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.

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.