

**PRODUCT DESCRIPTION**

**FT-2190** is a two component, spray-applied, aromatic polyurea. It is an elastomeric protective coating that is flexible, abrasion resistant, and impact resistant.

**USES**

- Parking Structures, Podium Decks, Planters, Tunnels
- Water Features, Ponds
- Amusement Parks, Entertainment, Wildlife Enclosures
- Oil & Gas - Primary and Secondary Containment

**ADVANTAGES**

- Withstands constant water immersion
- No noxious odors
- 0 VOCs - 100% solids
- USGBC LEED, EQ Credit 4.2: Low-emitting VOC Compliant Materials

**COLOR**

Standard color is Tan (Color Code "750"). Additional colors are available upon request.

**Note:** FreedomTuff aromatic polyureas are UV stable, but are known to darken or change color when exposed to UV and/or sunlight. This discoloration has shown to have little to no effect on the integrity of the aromatic polyureas.

**TYPICAL PHYSICAL PROPERTIES**

Property	Test Method	Value
Mix Ratio by Volume	NA	1:1
Gel Time @ 68°F	ASTM D1640	8-12 seconds
Tack Free Time @ 68°F	ASTM D1640	15-20 seconds
Recoat Window	Internal	6 hours
Pedestrian Traffic	Internal	30 minutes
Vehicular Traffic	Internal	60 minutes
Solids Content	ASTM D6511	100%
VOC	ASTM D6511	0 g/l
Shore Hardness	ASTM D2240	55D
Tensile Strength	ASTM D412	2,670 psi
Elongation	ASTM D412	389%
Tear Strength, Die C	ASTM D624	524 pli

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

## 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

### 104-gallon kit:

- Part A: 52 gallons liquid in 55-gallon drum
- Part B: 52 gallons liquid in 55-gallon drum

## 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.