

ULTRA-FLEX

TESTING & APPROVALS

UF 5000 TM	ASTM
Density, pct	60.86
Tensile Strength, psi	1392 (D 412)
Elongation %	247 (D 892)
Tensile Modulus, psi	1321 (D 412)
Tensile Ext. to break,	5.4 (D 624)
Graves Tear, pi 20"min.	230 (D1004)
Graves Tear, pi 2"min.	228 (D2240)
Water Absorption % wt.+	0.31
% Solids	90% (+/-2%)
Moisture Vapor Trans.	0.02 (E 96)

DESCRIPTION

Ultra-FlexTM is a high performance poured in place Liquid Urethane coating that offers just about everything. It is a black, two part liquid product that forms into a tough Durable, low VOC, coating that has many uses including but not limited to roof surfaces, water tower restorations tank liners, potable water tank reconstitution, sewer plant liners, ship and seaboard rust protection, piling coatings, boat bottom coatings, bridge repairs etc. This is a very safe and easy cold application, no torches, no hot kettles, glues, tapes or heat guns. This rapid cure system promotes a minimum down time during application. This product offers the ideal solution to many roofing and water proofing applications.

Make up: **Ultra-FlexTM** is a very high quality urethane product and a highly proprietary formula. This product is extremely resilient and very low in voc's. The base product is high grade of asphalt

with pH balances and a part "B" catalyst for activating.

Product Limits: **Ultra-FlexTM** is a very tough and resilient product with many uses. Please read the chemical analysis \ Sheet for product testing for use on numerous chemicals. **Ultra-FlexTM** is not a good tank liner for many acids and hot petroleum based products. Be certain to understand and test your usage of this product before full application. As a roof coating, the use of **Ultra-FlexTM** requires additional Consideration when used over tar surfaces.

Other properties: As a roof surface replacement, **Ultra-FlexTM** has distinct advantages because it can be used directly over most roofing materials without removing the old, plus, it forms a seamless, continuous surface which is much less apt to cause leaks or cause separation problems. **Ultra-FlexTM** chemically hardens therefore it can be worked in any reasonable temperature. Surfaces must be dry as excessive moisture or wetness will cause bubbling or foaming.

APPLICATION

Ultra-FlexTM IS A TWO PART, (9 TO 1) MIXTURE THAT IS SOLD AND DELIVERED IN TWO CONTAINERS EQUALING 5 U.S. Gallons. When the sight is prepped and ready, the products are mixed in the Part" A" container for a minimum of 3 minutes. Pot life is approximately 30 minutes and the mixed product cannot be reused.

The thickness of the application varies with the job requirements. Roof Surfaces are only warranted if the thickness applied exceeds 60 mils (60/1000 of an inch). Depending upon the nature of the job,

Ultra-FlexTM can be installed with a brush, trowel, roller or airless spray. For complete details on sealing and performing a roofing task, see the entire installation instructions

Ultra-FlexTM offers a vertical grade and a white top coat if solar reflectance is required. This white product is ENERGY STAR approved and is a tremendous help in conserving electricity. There is also a cloth available to be used to seam bind failing seams or to use for re-construction of an entire roof. Again, complete instructions are available.

Approximate Coverage: Is 100 sq. ft. per 4 gallons at 60 mils, (60/1000 of an inch) for roof top applications. Thinner or thicker installations may be required on different applications. **Ultra-FlexTM** has proven to be an important product in the rehabilitation of Transite roofs in industry. Consult TEMP-COAT@ Brand Products for installation assistance.

Clean-Up: **ULTRA-FLEXTM** is a hydrocarbon based product and cleans up with mineral spirits. Any clean-up desired should be accomplished immediately as once the product cures, cleaning is virtually impossible.





FB-520

I PRODUCT

FB-520[®] PYRO-TUMID COATING

II PROPERTIES

Percent Solids by Volume 67%
Wet Weight 8.8 lb/gal
Shipping Weight 5 Gal(20 Litre) Pail
44.0 lb
Operating Temperature range -50°F(°C)
to
225°F (116°C)
Application Temperature between +45°F (08°C)
To 125°F(52°C)

III DESCRIPTION of FB-520[®]

FB-520 - PYRO-TUMID is an acrylic latex based proprietary formula combining various elements and technology proven to offer both thermal and fire barrier protection to the marine industry. This light weight user friendly product is water based with a very high solids content. It is white but can be tinted most light to medium colors. This is a multipurpose product which is a fire retardant, thermal control and condensation control product all in one. This is a single component product.

FB-520 is designed for use on interior surfaces including hulls, bulkheads, overheads, other areas subject to issues involving fire. FB-520 should not be used in areas exposed to continual moisture and it may be top coated without disturbing the benefits of the product. FB-520 Provides a less expensive alternative to many fire proofing techniques. It is a thin film barrier that adheres to the vessel interior and does not require excessive space to be effective.

IV BENEFITS of FB-520[®]

- A simple and effective fire barrier
- Reduces Corrosion under Insulation (CUI)
- Insulates
- Does not require Jacketing
- Easily Repaired
- Offers ease of Inspection
- Can be applied on all interior surfaces
- Can be top coated
- Will not harbor bacteria, rodents mold, mildew or Insects.
- Ease of application
- Ease of inspection
- Eliminates waste in construction
- Offers sound damping qualities

V APPLICATION

Surface Preparation

Apply FB-520® on any clean and dry substrate which is free of oil, grease, wax or dirt and assuming the existing coating or surface is stable. A minimum of SP-2/SP-3 or equivalent is recommended.

Mixing

A rectangular Sheet Rock Mud Paddle is required for mixing. This is a single part product and requires a minimum mixing of less than 1.5 minutes. Up to 10 ounces of water may be added if needed. This step depends on thermal conditions being very Evaporates warm which can evaporate fluid or very old which can thicken the product. Under normal circumstances, no water is needed.

Spray Equipment

Airless spray pumps capable of producing 2 to 3 Gallons per minute are required. This product does not spray well through conventional air assist pot sprayers.

Airless is recommended for full or large jobs. Our **QUIK-GUN™** works very well in tight places, for trim work or for small jobs. Please see our web site at

www.tempcoat.com for full information and description.

Brush or Roller can be used to install this product. These items can be used for application and touch up. Airless spray will offer a better overall finish.

Application Conditions

Surface temperature should be greater than 45°F. Surface must be dry and dehumidifiers may be required if Humidity is over 80%. Applications in wet weather is not recommended or ample dry time must be considered. Application is recommended in 20 mil (0.5mm) coats. Average time between coats @ 70% humidity less than and temperatures of 70 to 85°F (21 to 30°C) = 1 to 1.5 hours. As with all acrylic latex products, weather conditions affects

drying times. This product is micro-porous therefore dry times are not overly critical between coats. Dry-fall is at a minimum as product dries within 4 feet of the gun. All surfaces not to be coated should be properly covered and protected from over spray.

VI Clean Up and Disposal

FB-520 is a water based product and therefore cleans up with mild soap and water. Clean all spray equipment and spray guns thoroughly with plenty of fresh water. Lubricate pumps and guns by circulating a small amount of diesel or prescribed cleaning fluids through the system and over flow tubes. Store airless and other equipment leaving the lubricant in the system to protect interior parts from water contamination, rust and corrosion.