ULTRA-FLEX™ 5000 FR

Fire Rated Urethane Coating

ULTRA-FLEX™ 5000 FR was ignited with a 2000°F torch for a period of 10 seconds. This test was repeated twice in the same spot within seconds of the material self extinguishing the flame.

ULTRA-FLEX™ 5000 FR self extinguishes in less than 3 seconds. This test was repeated for 10 seconds at the same spot for reignition and ULTRA-FLEX™ 5000 FR self extinguished in less than 4 seconds.

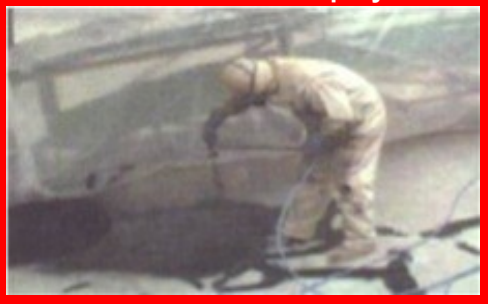
"ULTRA-FLEX 5000 FR is the Optimum Fireproof Urethane Coating"

Protect your property and guard against spreading fires with ULTRA-FLEX™ 5000 FR. Same superior waterproofing and anti-corrosion properties of ULTRA-FLEX™ 5000. ULTRA-FLEX™ 5000 FR exceeds the standards of ASTM E 108-93, Standard Method of Fire Tests of Roof Coverings and comparable UL-90 and UBC 15-2 standards.

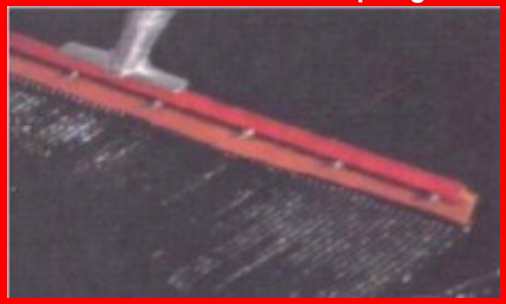
When the leading competitor's product (who also claims a Class A fire rating) was tested to the same standards as ULTRA-FLEX™ 5000 FR, the material caught fire, ignition was carried to the substrate and the material melted and spread flames to adjacent materials.

ULTRA-FLEX can be rolled on.

ULTRA-FLEX can be sprayed.



ULTRA-FLEX can be squeegeed.



ULTRA-FLEX™ 5000 FR (Fire Rated) CHEMICAL RESISTANCE CHART

The adjacent will provide general exposure guidelines as to the resistance of ULTRA-FLEX™ 5000 FR against certain chemicals and combinations. Although this information is believed to be reliable. LAVA-LINER may not have application, installation, or exposure experience of ULTRA-FLEX™ 5000 FR in a particular application and suitable tests should be carried out by the user.

Where concentrations of chemicals are listed, the rating applies to all concentrations up to and including the concentration indicated. Maximum temperature for continuous service in some specific atmospheres is 140^0 F (60^0C). For most applications, however, maximum service temperature is much higher. Consult your LAVA-LINER representative for actual use recommendations.

FOOTNOTE
R - Recommended/suitiable continuous
CR - Conditionally recommended/
for splash/spill conditions
R1 - Max. service temp. limited to 100^0 F
R2 - Max. service temp. limited to 150^0 F.

Acetic Acid, Glacial	CR
Ammonium Hydroxide, < 15%	R1
Biological Oxidation Ponds	R
Bromine, Saturated	R
Chlorine, Saturated	R
Citric Acid, > 15%	R
Copper Sulfate (Sat.) Solution in Water	R
Deionized Water	R
Ethylene Glycol (Antifreeze)	R
Ferric Chloride, >54%	R2
Hydrochloric Acid (muriatic). < 15%	R
Solution in Water	R
Hydrogen Sulfide, Vapor37%	CR
H20, Fresh	R
Phosphoric Acid, 10%	R
Sewage Disposal Plant	R
(Activated Sludge Sedimentation Tanks)	R
Salt	R
Sodium Dichromate 12%	R
Sodium Hydroxide 10%	R1
50% 72 hrs	R1
40% 48 hrs	R2
Sodium Hypochlorite, 5.25%	R
Soil Burial	R
Sodium Silicate, < 41 %	R
Sulfuric Acid, 5%-40%	R
Trisodium Phosphate< 10%	R
H_20	R

Test:
ASTM E 108-93, Standard Method of Fire Tests of Roof Coverings
Comparable Standards:
Underwriters Laboratories, Inc., Standard Specification 790
Uniform Building Code, Standard No. 15-2

Material:
ULTRA-FLEX ™ 5000 FR
Coverage Rate: 28 ft^2 / gal

Test Conditions:

Wind Velocity:	12 MPH
Flame Temperature	1400°F ± 50 °F
Deck Slope	5:12
Flame Application	10 Minutes

	Test Results	**Test Standard**:
Time to Ignition	60 seconds	N/A
Maximum Spread of Flame	1.5 ft	6 ft
Lateral Spread of Flame	None	None

ULTRA-FLEX ™ 5000 FR meets the Class A requirements for spread of flame when tested in accordance with ASTM E108, "Standard Test Methods for Fire Tests of Roof Coverings." This evaluation is applicable to the use of this system over non-combustible substrates up to a slope of 5:12.

PHYSICAL PROPERTIES	**RESULTS**	**TEST METHOD**
Tensile Strength, psi	>1000	ASTM D412
Elongation, %	>200%	ASTM D412
Tensile Modulus, psi	>1000	ASTM D412
Volatile Oranic Content	81 g/l	Calculated
Graves Tear	>200	ASTM D1004
Shore A Hardness	70-72	ASTM D2240
Moisture Vapor Transmission	0.02	ASTM E96

MANUFACTURED BY:

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