

URETHANE PRODUCTS CORPORATION

UPC High Performance Coatings

Guardian 6001 is a rapid set high performance polyurea spray polyurea coating designed to perform in hydrolytic environments. The physical properties include a low permeability rating, high tensile strength, high abrasion protection and flex strength.

Application

Guardian 6001 must be applied to the substrate using a plural component spray pump with a minimum of 2000-psi capability at the spray tip and must be heated to a minimum of 140°F. Application temperature range is between 0°F to as high as 140°F.

Usage

Guardian 6001 is used for Secondary containment, concrete restoration, roofing top coat, and water proofing protection. Used in industrial facilities, refineries, chemical plants and marine applications.

Rapid set properties

Guardian 6001 fast set properties

Initial set time	8-15 seconds
Tack free	20-30 seconds
Return to service	1-2 hours

Food Contact

USDA Compliant, self-approval is possible for incidental food contact. Must follow FSIS guidelines and installation process.

Elcometer adhesion psi. (Typical)

Concrete (dry)	400
Concrete (primed)	1000
Steel (2-4 anchor profile)	1200

Contact Information

Urethane Products Corporation
9076 Rosecrans Ave
Bellflower, Ca 90706
(562) 630-4982 Phone
(800) 913-0062 Toll free

E-mail: info@urethaneproducts.com

Coverage

Guardian 6001 is typically applied in continuous coats of 20 mils, but has no limit on the build up thickness.

Coverage Rates Per sqft (Per Gallon) Est. □ Subject to substrate condition. 50 Mils = 32 sq ft 80 Mils = 20 sq ft 125 Mils = 13 sq ft

Waste Water Tank



Protection



Irrigation Canal



Digester Tank

Physical Properties

Solids		100%
Density	ASTM D 1622	70
Hardness	ASTM D 2240	95 A
Tensile	ASTM D 412	3188 psi
Elongation	ASTM D 412	637%
Tear Strength	ASTM D 470	421 lbs / inch
Abrasion (H18)	ASTM D 4060	0.94 / 1000
Permeability	ASTM E 96	.077 WVT

Warranty information

Testing was performed by an independent testing facility and believed to be reliable. However since the data has been obtained under controlled Laboratory conditions we can assume no liability for damages resulting from the use of this material. All information given without warranty or guarantee. It is our recommendation that the user perform individual testing.

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UPC High Performance Coatings

Guardian 6001ht is a rapid set high performance polyurea spray polyurea coating designed for higher temperature environments. The physical properties include a low permeability rating, high tensile strength, high abrasion protection and flex strength.

Application

Guardian 6001ht must be applied to the substrate using a plural component spray pump with a minimum of 2000-psi capability at the spray tip and must be heated to a minimum of 140°F. Application temperature range is between 0°F to as high as 140°F.

Usage

Guardian 6001ht is used for Secondary containment, concrete restoration, Steel tanks, processing plants, industrial facilities, refineries, chemical plants and marine applications.

Rapid set properties

Guardian 6001ht fast set properties

Initial set time	8-15 seconds
Tack free	20-30 seconds
Return to service	1-2 hours

Food Contact

USDA Compliant, self-approval is possible for incidental food contact. Must follow FSIS guidelines and installation process.

Elcometer adhesion psi. (Typical)

Concrete (dry)	400
Concrete (primed)	1000
Steel (2-4 anchor profile)	1200

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Coverage

Guardian 6001ht is typically applied in continuous coats of 20 mills, but has no limit on the build up thickness.

Coverage Rates Per sqft (Per Gallon) Est. □ Subject to substrate condition. 50 Mills = 32 sq ft 80 Mills = 20 sq ft 125 Mills = 13 sq ft

Waste Water Tank



Physical Properties

Solids		100%
Density	ASTM D 1622	70
Hardness	ASTM D 2240	50 D
Tensile	ASTM D 412	3200 psi
Elongation	ASTM D 412	310%
Tear Strength	ASTM D 470	520 lbs / inch
Abrasion (H18)	ASTM D 4060	0.94 / 1000
Permeability	ASTM E 96	.077 WVT
Temperature range		280°F

Warranty information

Testing was performed by an independent testing facility and believed to be reliable. However since the data has been obtained under controlled Laboratory conditions we can assume no liability for damages resulting from the use of this material. All information given without warranty or guarantee. It is our recommendation that the user perform individual testing.

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UPC High Performance Coatings

Guardian 9200R is a durable, high impact, seamless spray polyurea roof top coat system. Applications include foam roof systems, metal roofs, existing tar and gravel and modified BUR systems. Can be applied over existing roof systems reducing down time.

Properties

Guardian 9200R is a 100% solids, 2-component, 1:1 ratio material with elongation exceeding 400%. Tested for durability and impact resistance.

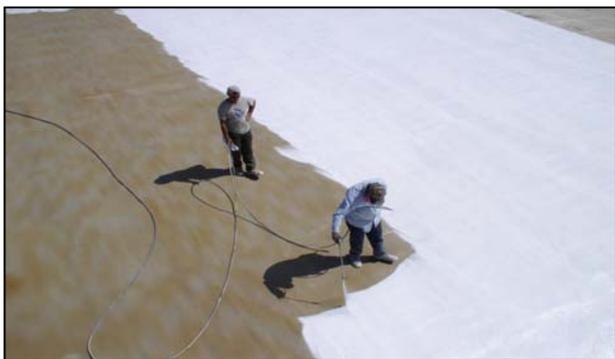
Application

Guardian 9200R must be applied to the substrate using a plural component spray pump with a minimum of 2000-psi capability at the spray tip and must be heated to a minimum of 140°F. Application temperature range is between 0°F to as high as 140°F.

Slow cure characteristics

Guardian 9200R slow set properties

Initial set time	60-90 seconds
Tack free	6-8 minutes
Return to service	1-2 hours



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Coverage

Guardian 9200R is typically applied in continuous coats of 20 mills, but has no limit on the build up thickness.

Coverage Rates Per sqft (Per Gallon) Est. □ Subject to substrate condition. 50 Mills = 32 sq ft 80 Mills = 20 sq ft 125 Mills = 13 sq ft

Top Coat Over Foam



Limitations

Guardian 9200R is an aromatic (none color stable) spray system. An aliphatic top coat is required for color stability. EPDM systems require specific Procedure. See Specification for EPDM roofs.

Physical Properties

Solids		100%
Impact resistance	ASTM D 3776	21ft. lbs.
Hardness	ASTM D 2240	95 A
Tensile	ASTM D 412	3080 psi
Elongation	ASTM D 412	480%
Flex Life (Ross)	ASTM D 1052	200,000 cy.
Tear Strength	ASTM D 470	421 lbs / inch
Abrasion (H18)	ASTM D 4060	0.94 / 1000
Permeability	ASTM E 96	.077 WU

Warranty information

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UPC High Performance Coatings

Guardian 9200 is a slow cure high performance polyurea spray coating with superior performance in marine Environments. Provides excellent hydrolytic stability, permeability ratings and impact resistance.

Properties

Guardian 9200 is a 100% solids, 2-component, 1:1 ratio material with elongation exceeding 350%. It has superior hydrolytic stability and excellent physical properties.

Application

Guardian 9200 must be applied to the substrate using a plural component spray pump with a minimum of 2000-psi capability at the spray tip and must be heated to a minimum of 140°F. Application temperature range is between 0°F to as high as 140°F.

Usage

Guardian 9200 is used as a coating for marine applications, waterproofing applications, treated timber, steel piling and industrial applications.

Elcometer adhesion psi. (Typical)

Concrete (dry)	400
Concrete (primed)	1000
Steel (2-4 anchor profile)	1200

Slow cure characteristics

Guardian 9200 slow set properties	
Initial set time	60-90 seconds
Tack free	6-8 minutes
Return to service	1-2 hours

Coverage

Guardian 9200 is typically applied in continuous coats of 20 mills, but has no limit on the build up thickness.

Coverage Rates Per sqft (Per Gallon) Est. □ Subject to substrate condition. 50 Mills = 32 sq ft 80 Mills = 20 sq ft 125 Mills = 13 sq ft

Steel Buoy



Steel Piling



Treated timber pile



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Physical Properties

Density	ASTM D 1622	70
Impact resistance	ASTM D 3776	21ft. lbs.
Hardness	ASTM D 2240	90 A
Flex Life (Ross)	ASTM D 1052	200,000 cy.
Tensile	ASTM D 412	3000 psi
Elongation	ASTM D 412	375%
Tear Strength	ASTM D 470	421 lbs / inch
Abrasion (H18)	ASTM D 4060	0.94 / 1000
Permeability	ASTM E 96	.077 WVT

Warranty information

Testing was performed by an independent testing facility and believed to be reliable. However since the data has been obtained under controlled Laboratory conditions we can assume no liability for damages resulting from the use of this material. All information given without warranty or guarantee. It is our recommendation that the user perform individual testing.

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UPC High Performance Coatings

Guardian 9300 is fast cure high performance polyurea spray coating with self leveling capabilities. 9300 has a longer tack free time than standard fast set systems allowing the product to self level on horizontal and vertical surfaces.

Properties

Guardian 9300 is a 100% solids, 2-component, 1:1 ratio material with elongation exceeding 600%. It has superior hydrolytic stability and high physical properties.

Application

Guardian 9300 must be applied to the substrate using a plural component spray pump with a minimum of 2000-psi capability at the spray tip and must be heated to a minimum of 140°F. Application temperature range is between 0°F to as high as 140°F.

Usage

Guardian 9300 concrete restoration and protection, water proofing, floor and wall protection, composite systems, marine applications, roof top coat.

Slow cure characteristics

Guardian 9300 Fast cure properties

Initial set time	1-2 minutes
Tack free	3-4 minutes
Return to service	1-2 hours

Elcometer adhesion psi. (Typical)

Concrete (dry)	400
Concrete (primed)	1000
Steel (2-4 anchor profile)	1200

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Coverage

Guardian 9300 is typically applied in continuous coats of 20 mills, but has no limit on the build up thickness.

Coverage Rates Per sqft (Per Gallon) Est. Subject to substrate condition.
50 Mills = 32 sq ft
80 Mills = 20 sq ft
125 Mills = 13 sq ft

Composite Wall



Concrete Restoration

Physical Properties

Density	ASTM D 1622	70
Hardness	ASTM D 2240	45 D
Tensile	ASTM D 412	3300 psi
Elongation	ASTM D 412	642%
Tear Strength	ASTM D 470	640 lbs / inch
Flex Life (Ross)	ASTM D 1052	200,000 cy.
Abrasion (H18)	ASTM D 4060	0.94 / 1000
Permeability	ASTM E 96	.077 WVT

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