SKYTITE® A-1000 Series Acrylic Roof Coatings

SKYTITE A-1001 White, SKYTITE A-1002 Light Gray, SKYTITE A-1005 Light Tan

PRODUCT DESCRIPTION:

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We create chemistry

SKYTITE A -1000 Series is an advanced acrylic elastomer coating that combines high solids emulsion polymers and potent biocides to provide superior durability, reflectivity, weatherproofing, and mildew resistance. Non-migrating fire-retardant chemicals are permanently locked into the cured coating to assure performance.

SKYTITE A-1000 Series is unique among acrylic elastomers in that elongation and tensile strength properties are both maintained at lower temperatures.

PHYSICAL PROEPRTIES:

APPROVALS:

Solids by Weight	66% (±2) [ASTM D1644]	Underwriters Laboratories (UL) UL 790 Class A*	Over many different types
Solids by Volume	53% (±3) [ASTM D2697]	UL 790 Class A"	of UL classified spray-applied polyurethane foams. Refer to UL Roofing Materials and
Tensile Strength	284 psi (±20) @ 75°F (24°C) [ASTM D2370]		Systems Directory or UL website for foam
Elongation	258% (±20) @ 75°F (24°C)		manufacturers and types, foam thicknesses
-	[ASTM D2370] SKYTITE A-1000 Series Roof Coating is unique in that it		and densities, inclines and coating
	maintains its elongation values at freezing temperatures, as well as after	Factory Mutual (FM)	requirements of rated roof systems. Approved (a) as a Class 1 Insulated Steel
	extended weathering.	Factory Mutual (FM)	or Concrete Deck Roof System for new
Hardness	55-65 Shore A [ASTM D2240]		construction, and (b) as a Class 1 Re-Cove
Permeance	22.5 U.S. Perms @ 20 mils (508 microns) [ASTM D1653]		Application System when installed over
Permeability	0.11 Perm Inches [ASTM E96]		existing Class 1 built-up roofing. Subject to
ASTM D6083	Independently tested and certified to exceed ASTM D6083 standards.		the conditions of approval as described in
EPA ENERGY STAR®	Independently tested and certified to surpass ENERGY STAR and CRRC		the FM Approval Guide, or job Identification no. 2NIA3.AM.
Program	guidelines for energy efficiency.	UL Construction	UL fire classification with a variety of
High Temperature Stability	Did not age-harden or slump at temperatures up to 200°F (93°C). [ASTM	Nos. 74, 136, 181	polyurethane foams sprayed over metal
	D794]	& 206 – U.S. Navy	decking. Refer to UL Roofing Materials and
Elongation Retained After	After 1,000 hours exposure, passed the requirements of ASTM	White House	Systems Directory or UL website under
Aging	D6083/ASTM D2370 – minimum 100% @ 73°F (23°C).	Test/UL Standard 1256**	Roof Deck Construction for illustration &
Bond Strength	No adhesive failure between the coating and PUF substrate. SKYTITE A-		description of each rated roof system.
	1000 Series Roof Coating remained totally bonded to the polyurethane	California State Fire Marshal	Conforms to Class "A" requirements with various spray-applied polyurethane foam
	foam under all stress conditions. [ASTM C297]		systems.
Ponded Water Adhesion	After 30 days of continuous testing, SKYTITE® A-1000 Series Roof	Building Code	SKYTITE A-1000 Series Roof
	Coating showed no significant loss of adhesion. No blistering or other	acceptance	Coating/Polyurethane Foam Roofing
	deleterious effects were observed.		Systems are accepted by all major model
VOC	<80 g/L		building code authorities for Class "A" and
Dry Time for Foot Traffic	3 hours at 75°F (24°C), 50% R.H.		Class "B" constructions. These building
Resistance: *	Medium Gray @ 16 wet mils (406 microns)		code authorities also accept UL Construction no.136 as an approved roof
	5 hours at 75°F (24°C), 50% R.H.		system over metal decks without a thermal
	White @ 16 wet mils (406 microns)		ignition barrier.
	*Dry times will increase with lower temperature and/or higher humidity.	International Code Council	Approved as a fire-retardant roof coating
Temperature Limits for	-30°F to 200°F (-35°C to 93°C)	(ICC) approval	over many different types of spray-applied
Normal Service Conditions			polyurethane foam on non-combustible
Resistance to Accelerated	After 3,000 hours of continuous exposure, showed no deleterious effects,		substrates, existing fire-retardant BUR & new wood substrates.
Weathering	no surface checking or cracking, no delamination and no color fade.		See ICC ES reports 2298 and 2489 for
	[ASTM D6083, ASTM D4798]		specifications and conditions of use
Resistance to Wind Driven	After 40 hours of continuous testing, no apparent moisture penetrated the		concerning material presented in this
Rain	coating. [Tested in accordance with Federal Specification TTC-555 B]		document.
Rain Resistance to Foot Traffic	coating. [Tested in accordance with Federal Specification TTC-555 B]	Miami-Dade County NOA	document. 12-0521.05 Exp April 1, 2019
Resistance to Foot Traffic		Miami-Dade County NOA	
Resistance to Foot Traffic	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing	Miami-Dade County NOA	
Resistance to Foot Traffic [Tested in accordance with	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing or permanent deformation of the SKYTITE A-1000 Series Roof Coating, or	Miami-Dade County NOA	
Resistance to Foot Traffic [Tested in accordance with FM 4470]	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing or permanent deformation of the SKYTITE A-1000 Series Roof Coating, or exposure of the polyurethane foam was observed. Test exceeds the stresses of normal roof maintenance traffic.	Miami-Dade County NOA	
Resistance to Foot Traffic [Tested in accordance with FM 4470]	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing or permanent deformation of the SKYTITE A-1000 Series Roof Coating, or exposure of the polyurethane foam was observed.	Miami-Dade County NOA	
Resistance to Foot Traffic [Tested in accordance with FM 4470] Low Temperature Flexibility	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing or permanent deformation of the SKYTITE A-1000 Series Roof Coating, or exposure of the polyurethane foam was observed. Test exceeds the stresses of normal roof maintenance traffic. Capable of withstanding 180° bends over a 3/16° (5 mm) mandrel @ -21°F (-30°C). [Federal Test Method no. 141a-6221]	Miami-Dade County NOA	
Resistance to Foot Traffic [Tested in accordance with FM 4470] Low Temperature Flexibility	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing or permanent deformation of the SKYTITE A-1000 Series Roof Coating, or exposure of the polyurethane foam was observed. Test exceeds the stresses of normal roof maintenance traffic. Capable of withstanding 180° bends over a 3/16" (5 mm) mandrel @ -21°F	Miami-Dade County NOA	
Resistance to Foot Traffic [Tested in accordance with FM 4470] Low Temperature Flexibility Cold Temperature Flex after	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing or permanent deformation of the SKYTITE A-1000 Series Roof Coating, or exposure of the polyurethane foam was observed. Test exceeds the stresses of normal roof maintenance traffic. Capable of withstanding 180° bends over a 3/16" (5 mm) mandrel @ -21°F (-30°C). [Federal Test Method no. 141a-6221] After 1,000 hours exposure, retained ability to withstand multiple ½"	Miami-Dade County NOA	
Resistance to Foot Traffic [Tested in accordance with FM 4470] Low Temperature Flexibility Cold Temperature Flex after Weathering	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing or permanent deformation of the SKYTITE A-1000 Series Roof Coating, or exposure of the polyurethane foam was observed. Test exceeds the stresses of normal roof maintenance traffic. Capable of withstanding 180° bends over a 3/16" (5 mm) mandrel @ -21°F (-30°C). [Federal Test Method no. 141a-6221] After 1,000 hours exposure, retained ability to withstand multiple ½" (1.2 cm) mandrel bends without cracking at -15°F (-18°C). [ASTM D6083, ASTM D522]	Miami-Dade County NOA	
Resistance to Foot Traffic [Tested in accordance with FM 4470] Low Temperature Flexibility Cold Temperature Flex after Weathering Simulated Hail Damage	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing or permanent deformation of the SKYTITE A-1000 Series Roof Coating, or exposure of the polyurethane foam was observed. Test exceeds the stresses of normal roof maintenance traffic. Capable of withstanding 180° bends over a 3/16" (5 mm) mandrel @ -21°F (-30°C). [Federal Test Method no. 141a-6221] After 1,000 hours exposure, retained ability to withstand multiple ½" (1.2 cm) mandrel bends without cracking at -15°F (-18°C). [ASTM D6083, ASTM D522] Coated foam panels passed multiple impacts with no evidence of	Miami-Dade County NOA	
Resistance to Foot Traffic [Tested in accordance with FM 4470] Low Temperature Flexibility Cold Temperature Flex after Weathering	coating. [Tested in accordance with Federal Specification TTC-555 B] No tearing, cracking, rupturing or permanent deformation of the SKYTITE A-1000 Series Roof Coating, or exposure of the polyurethane foam was observed. Test exceeds the stresses of normal roof maintenance traffic. Capable of withstanding 180° bends over a 3/16" (5 mm) mandrel @ -21°F (-30°C). [Federal Test Method no. 141a-6221] After 1,000 hours exposure, retained ability to withstand multiple ½" (1.2 cm) mandrel bends without cracking at -15°F (-18°C). [ASTM D6083, ASTM D522]	Miami-Dade County NOA	

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Application Instructions:

SUBSTRATE PREPARATION: Polyurethane foam and adjacent surfaces to be coated shall be free of any degraded foam, grease, oil, dirt, or other contaminants that will interfere with proper adhesion. Polyurethane foam shall be completely dry and frost-free before coating. Any physical damage to the polyurethane foam shall be repaired before coating application commences. Any oxidized polyurethane foam shall be repaired or replaced. Do not coat directly over polyurethane foam that has been mechanically scarified or sanded.

MIXING: Thoroughly mix using a power mixer for a minimum of 5 minutes prior to application. For 5-gallon (19 liter) pails, use a 3" (76 mm) minimum diameter mixing blade; for 55-gallon (208 liter) drum, use a 6" (152 mm) minimum diameter blade.

APPLICATION: Apply to polyurethane foam surfaces between 24 and 72 hours after final application, depending on climate and manufacturer (refer to foam manufacturer for more information). Coating should be applied within this time frame to prevent surface oxidation that would interfere with coating adhesion. Apply product with an airless sprayer, covering the surface at an even rate. Use an airless spray pump with a 1 gallon-per-minute (3.8 L/minute) output and 2,000 psi (13,790 kPa) pressure capability. Use a reversible, self-cleaning tip with orifice size 0.027"–0.039" (0.69–0.99 mm) and a fan angle of 40° or 50°. Filter screens should be 30 mesh or larger. Use 3/8" (9.5 mm) minimum inside diameter, nylon high pressure-type hose for lengths up to 75 ft. (23 m) from pump. For 75 ft.–200 ft. (23–51 m), use 1/2" (13 mm) inside diameter hose added to pump side of existing 3/8" (1 mm) hose to maintain pressure and delivery. Over 200 ft. (51 m), use 5/8" to 3/4" (1.6 to 1.9 cm) inside diameter hose added to pump side of existing and to achieve a pinhole-free continuous film. Each coat shall be applied in a direction perpendicular to the previous coat to ensure positive coverage. Each coat of coating must be dry and cured before an additional coat is applied. All surfaces must be uniformly coated and free from voids, pinholes, or blisters.

APPLICATION NOTE: Requires complete evaporation of water to cure. Cool temperatures and high humidity slow cure.

Apply in two coats at a minimum total rate of 1-1.5 gallons per 100 ft² (.4-.6 I /m²). Consult BASF's product specifications for specific film thickness requirements to qualify for BASF's product warranty.

Packaging: 5-gallon (19 liter) pail; 54-gallon (204 liter) drum

Storage: SKYTITE A-1000 Roof Series Coating will freeze and become unusable at temperatures below 32°F (0°C). Do not ship or store unless protection from freezing is available. SKYTITE A-1000 Roof Series Coating should generally not be used over cold storage tanks or buildings unless applied over a vapor barrier coating. SKYTITE A-1000 Roof Series Coating shall not be used for interior applications in place of a thermal barrier.

Shelf Life: Shelf life 24 months if unopened containers stored between 40°F and 70°F (4°C - 21°C).

Limitations and Precautions:

Do not apply SKYTITE A-1000 Series Roof Coating at temperatures below 50°F (10°C), or when there is possibility of temperatures falling below 32°F (0°C) within a 24-hour period after application.

SKYTITE A-1000 Series Roof Coating requires complete evaporation of water to cure. Cool temperatures and high humidity retard cure. Do not apply if weather conditions will not permit complete cure before rain, dew or freezing temperatures occur. Do not apply in the late afternoon if heavy condensation may appear during the night.

Freight Classification: Non-Hazardous/Non-Regulated Product

Handling and Safety:

For specific information regarding safe handling of this material please refer to the Safety Data Sheet (SDS).

Cleanup of Spills or Leakage: Use water and UCC or other similar detergent to thoroughly flush equipment. Purge the water from the system using Mineral Spirits or Glycol Ether. Leave the solvent in the lines and equipment until next use. It is not recommended practice to leave SKYTITE A-1000 Series Roof Coating in the pump or hoses.

While descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/use, BASF recommends that the reader make tests to determine the suitability of a product for a particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be sued without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of BASF's terms and conditions of sale. Further the descriptions, designs, data, and information furnished by BASF hereunder are given gratis and BASF's assumes no obligation or liability for the description, designs, data or information, data or negulated, all such being given and accepted at the reader's risk.

Revision Date: April 9, 2019

SKYTITE® A-1000 SERIES ACRYLIC ROOF COATING

LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY:

Various Special Warranties may be purchased from BASF Corporation. These include Full System Limited Warranties for 5 to 20 years and Coating-Only Limited Warranties for 5 to 20 years. Special warranties are available only when the roof system is applied by a BASF Approved Applicator in strict accordance with BASF's application specifications for the particular warranty package selected. If no special warranty is purchased, BASF's Standard Product Warranty applies. For details on all available warranties, contact your BASF Roofing Specialist.

Certifications approvals and listing are based on a specific design configuration and should be verified with BASF. Important: The information, data and products presented herein are based upon information reasonable available at the time of publication, and are presented in good faith, but are not to be construed as guarantees or warranties, express or implied, regarding performance, results to be obtained from comprehensiveness merchantability or that said information, data or products can be used without infringing patents of third parties. You should thoroughly test any application, and Independently determine satisfactory performance before commercialization.







*Cements and Coatings for Built-Up Roof Coverings Classified by Underwriters Laboratories Inc.® as to an external fire exposure only. See UL Roofing Materials and Systems Directory.

**Roof Coatings Classified by Underwriters Laboratories Inc.® as roof deck construction material with resistance to an internal fire exposure only for use in Construction nos. 74, 136, 181 & 206. See UL Roofing Materials and Systems Directory

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