



Acron DS

Product Data Sheet



BASIC USES

Acron DS was specifically developed for protecting sprayed polyurethane foam insulation from degradation caused by normal weathering, aging and ultraviolet exposure. Acron DS has the unique property of being an elastomeric coating that is able to uniformly cover the profile of textured substrates. It has excellent adhesion to polyurethane foam, concrete, masonry, primed metal, primed wood, and asphalt. Acron DS is used for protection of sprayed polyurethane foam on new roofs, existing roofs, and hot or ambient storage tanks. It can also be used as a direct-applied system for protecting a variety of new or existing roof substrates.

Advantages:

- Acron DS has a UL-790 Class "A" classification over spray-applied polyurethane foam on non-combustible decks, and Class "B" over combustible decks. Refer to UL Roofing Materials and Systems Directory for foam manufacturers and types, foam thicknesses and densities, inclines and coating requirements of rated roof systems.
- High Acrylic Resin Content – Acron DS contains lower filler pigment load and higher levels of acrylic polymer than most coatings. This high ratio of pure acrylic polymer provides long-term weather resistance. Acron DS achieves its overall high performance through the use of 100% elastomer acrylic polymers.
- EPA ENERGY STAR® Program – ACRON has been independently tested and surpasses ENERGY STAR® and CRRC guidelines for energy efficiency.
- Uniform Film Build – The thixotropic consistency of Acron DS gives it excellent vertical hold, allowing uniform build on the highs and lows of the polyurethane foam texture.
- Abrasive Weather Conditions – Acron DS will take normal abrasive weather conditions of all types. Ice, snow and sand will not penetrate its tough, dense surface under normal conditions.
- Non-Polluting – Acron DS contains no solvents. It conforms to all federal, state and local air pollution standards and VOC requirements.
- Volume Solids – The high volume solids of Acron DS, along with its excellent hide and vertical hold characteristics, allows for higher film build in fewer coats. This enables Acron DS to uniformly cover the uneven texture of the polyurethane foam surface.
- Single Package – No catalyzation – Acron DS is a ready-to-use material. It has no pot life limitations.

PRODUCT DESCRIPTION

Acron DS is an acrylic elastomer coating that combines high solids emulsion polymers and biocides for superior durability, weatherproofing, mildew resistance, ultraviolet resistance and fire resistance.

WARRANTY

See applicable warranties and guarantees for complete coverage and restrictions.

PACKAGING & SHELF LIFE

5 gallon (19 liter) pail
54 gallon (204 liter) drum

Shelf life 18 months if unopened containers stored between 40°F and 70°F (4°C - 21°C).

PHYSICAL PROPERTIES

ACRON DS	
Solids by Weight	66% (±2) [ASTM D1644]
Solids by Volume	51% (±2) [ASTM D2697]
Ultimate Tensile Strength	200 psi (±20) @ 75°F (24°C) [ASTM D412]
Elongation at Break	180% (±20) @ 75°F (24°C) [ASTM D412]
Hardness	60-70 Shore A [ASTM D2240]
Permeance	2.7 perms @ 22 dry mils [ASTM E96]
Service Limits	-30°F to 200°F (-35°C to 93°C)
VOC	<50 g/L

Surface Dry Time for Foot Traffic Resistance	2 hours at 75°F (24°C), 50% RH Medium Gray @ 16 wet mils (406 microns)
	4 hours at 75°F (24°C), 50% RH White @ 16 mils wet (406 microns) <small>*Dry times will increase with lower temperatures and/or higher humidities</small>
Fire Resistance	UL 790 Class "A" classified system over spray-applied polyurethane foam on non-combustible decks, Class "B" over combustible decks.
Colors	White, Light Tan, and Light Gray

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION: 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). Polyurethane foam and adjacent surfaces to be coated shall be free of any degraded foam, grease, oil, dirt, or other contaminants that could 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. Incidental metal, cementitious, or wood substrates may require priming. See gaf.com for more details.

GAF Liquid-Applied

January 2016, supercedes March 2015

For technical, system, and warranty information, visit gaf.com or call 1-800-766-3411.

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APPLICATION INSTRUCTIONS, CONT'D

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

APPLICATION: 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 0.030" (0.76 mm) and a fan angle of 50°. Filter screens should be 30 mesh or larger. Use a 1/2" (12.7 mm) inside diameter hose. Apply at a minimum rate of 100 ft²/gallon (2.5m²/L) per coat. Total coverage depends on substrate. Rough substrates will require more. Each coat shall be applied in a

direction perpendicular to the previous coat to ensure positive coverage. Each coat must be dry and cured before an additional coat is applied. All surfaces must be uniformly coated and be free from all voids, pinholes, and blisters. If any form of dirt, sand, or pollution fallout is detected on the surface of coating, it is necessary to remove this material before applying an additional coat.

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

Apply in two coats at a minimum total rate of 1-1.5 gallons per 100 ft² (4-.6 l/m²). See system specifications at GAF.com for more details.

LIMITATIONS & PRECAUTIONS

Acron DS should generally not be used over cold storage tanks or buildings where a vapor barrier coating is required. **Acron DS** shall not be used for interior applications in place of a thermal barrier.

Acron DS will freeze and become unusable at temperatures below 32°F (0°C), or when there is a possibility of temperatures falling below 32°F (0°C) within a 24-hour period after application.

Acron DS 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, fog or freezing temperatures occur. Do not apply in the late afternoon if heavy moisture condensation may appear during the night.

Acron DS is slippery when wet, as are loose roofing granules. Exercise caution when walking on a roof under these conditions. Roofs subject to heavy maintenance traffic should have walk pads or granules installed in the walkways.

Avoid breathing of vapor or spray mist. For exterior applications, approved (MSHA/NIOSH) chemical cartridge respirator must be worn by Applicator and personnel in vicinity of application. Check filters frequently to ensure proper protection. If used indoors, provide mechanical exhaust ventilation. During indoor spray operations, air-line masks or positive pressure hose masks must be worn. Avoid contact with eyes and contact with skin.

Adequate precautions must be taken when applying **Acron DS** to occupied buildings to ensure that air conditioners and ventilation units are turned off and covered to prevent vapors from entering the building. Windows should also be kept closed. Signs should be posted around the area to advise building occupants or visitors of the spray activity.

It is good roofing practice to schedule an annual cleaning of the roof surface. This will eliminate the accumulation of leaves, dirt, debris, and other contamination. It will also alert the Owner to any mechanical damage or other problems that may compromise the integrity of the roofing system. Roofs subject to a high degree of traffic or contamination may require more frequent cleanings.

SAFETY & HANDLING

For specific information regarding safe handling of this material please refer to OSHA guidelines and product Safety Data Sheet (SDS).

CLEAN UP

Use water and UCC or other similar biodegradable 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 **Acron DS** in the pump or hoses.