



Roofshield® I.S. Fast-Dry Elastomeric Acrylic Coating

Technical Data Sheet - CJ Spray Equipment



PRODUCT DESCRIPTION

RoofShield® I.S. Fast Dry Elastomeric Acrylic Coating is a water-borne acrylic polymer dispersion system that is designed to rapidly form a film that resists rainwater wash-off. Because RoofShield® I.S. Fast Dry Elastomeric Acrylic Coating provides high film build, it can be applied in a single pass.

PACKAGING & SHELF LIFE

Part A: 50-gallon (189 L) drum
Part B: 5-gallon (18.9 L) pail

Shelf Life: 12 months from date of manufacture in unopened containers, if stored properly in a clean and well-ventilated area at 50°F – 90°F (10°C – 32°C). Storage outside this temperature range may shorten shelf life. Keep containers covered when not in use. Do not allow coating to freeze.

BASIC USES & ADVANTAGES

RoofShield® I.S. Fast-Dry Elastomeric Acrylic Coating adheres to a variety of substrates, including metal, granulated BUR, granulated SBS & APP membranes; single-ply membranes (TPO, PVC, EPDM); and structural concrete. New structural concrete roof decks should be weathered for at least 30 days. New asphaltic roofs should be weathered for at least 30 days, 90+ days would be ideal.

Note: For use on existing acrylic and SPF, contact GAF Technical Support (1-800-766-3411). Do **NOT** use on gravel-surfaced roofs or shingle roofs.

Advantages:

- Designed to rapidly form a film that resists rainwater wash-off
- High surface reflectivity can help to reduce building energy consumption
- Use for a variety of jobs such as new construction, maintenance, and repairs
- Apply films up to 60 wet mils (1.52 mm) thick in a single coat to reduce labor time
- Enables a one-pass solution for acrylic coatings

PHYSICAL PROPERTIES

ROOFSHIELD® I.S. FAST-DRY ELASTOMERIC ACRYLIC COATING			
	Property	Value (Nominal)	Tested Per ASTM
PART A ONLY	Solids by Weight	64%	D1644
	Solids by Volume	54%	D2697
	Weight per Gallon	11.2 lb. (1.3 kg/L)	D1475
PARTS A+B	VOC	<50 g/L	D6886
	Dry Time to Walk On	6 hours* at 70°F (21°C), 50% R.H.	
	Application Temperature (Air)	50°F (10°C) and rising	
	Application Temperature (Surface)	50°F – 110°F (10°C – 43°C)	
	Thermal Emittance	Initial: 0.90	
	Solar Reflectance	Initial: 0.87	
	Solar Reflective Index (SRI)	Initial: 110	

*At 50 wet mils. Dry time to walk on will increase with higher humidity and/or lower temperatures.

Dry-to-Touch Time (min)** for Different Temperature-Humidity Conditions (Roofshield® I.S. (mixed))				
		Temperature		
		Hot (80°F – 100°F) (26°C – 37°C)	Moderate (65°F – 80°F) (18°C – 26°C)	Cold (50°F – 65°F) (10°C – 18°C)
Humidity, %	Humid (50% – 80%)	15	20	35
	Moderate (30% – 50%)	10	15	25
	Dry (15% – 30%)	≤10	10	10

**Dry-to-touch time is based on actual ambient condition, wind speed, and elevation. This chart is only intended to serve as an estimated value, and it assumes the recommended catalyst pressure settings are followed.

APPLICATION INSTRUCTIONS

Substrate Preparation: Roof must have positive drainage with no moisture trapped in the roof assemblies. Roof substrate must be clean, completely dry, and free from any foreign matter. Pressure-wash to remove all dust and debris, and allow to dry. Examine substrate to receive new roofing and conduct test patches to verify adhesion of coating prior to start of work. Check for any damaged roof membranes, including all flashings and penetrations, and repair before coating application commences. Priming of substrate may be required. See gaf.com for more information.

Mixing: Roofshield® I.S. Fast-Dry Elastomeric Acrylic Coating is a two-part coating that will be mixed during the spray application using a specialized two-component sprayer.

Application: Full cure times will vary due to temperature and humidity. Typical coverage rates range from 3.0 to 3.5 gallons/100 ft² (12.2–14.3 L/10 m²) at a dry film thickness from 25–30 mils (0.64–0.76 mm). Total coverage is

dependent on the substrate. Smooth substrates may require less coating, while rough or porous substrates may require more coating.

Tip Combination for CJ Spray GH2050AC (Coating pressure range: 850 – 1000 PSI Catalyst pressure @ 100 PSI) for Different Temperature-Humidity Conditions				
Choose the temperature and humidity closest to current conditions to find an initial tip combination ⁶ .		Temperature		
		Hot (80°F – 100°F) (26°C – 37°C)	Moderate (65°F – 80°F) (18°C – 26°C)	Cold (50°F – 65°F) (10°C – 18°C)
Humidity, %	Humid (50% – 80%)	561/9502 (557/9502) ⁷	561/9502 (557/9502) ⁷	561/9502 (557/9502) ⁷
	Moderate (30% – 50%)	561/9502 (557/9502) ⁷	561/9502 (557/9502) ⁷	561/9502 (557/9502) ⁷
	Dry (10% – 30%)	561/9502 (565/9502) ⁷	561/9502 (565/9502) ⁷	561/9502 (565/9502) ⁷

⁶Catalyst pressure needs to be optimized based on actual ambient condition, wind speed, and elevation. For best results, conduct a spray test in current conditions to confirm appropriate catalyst settings. This chart is only intended to serve as an estimated initial starting point.

⁷Secondary option

GAF Liquid-Applied

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

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APPLICATION INSTRUCTIONS CONT.

Application Temperature: Apply at an air temperature of 50°F (10°C) and rising. Product should be applied when the surface temperature is between 50°F – 110°F (10°C – 43°C).

Application Note: Requires complete evaporation of water to cure. Cool temperatures and high humidity may slow cure.

For Application Questions: Contact GAF Technical Support at 1-800-766-3411 or visit gaf.com.

LIMITATIONS & PRECAUTIONS

IMPORTANT: Repair leaks promptly to avoid adverse effects, including mold growth.

- Do **NOT** apply on wet substrates.
- Do **NOT** heat container.
- Do **NOT** attempt to thin product.
- Do **NOT** apply if heavy moisture (e.g., rain, dew, fog, moisture condensation) or freezing temperatures are in the 24-hour forecast.

SAFETY & HANDLING

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

CLEAN-UP

Immediately after use, flush all equipment free of catalyst and coating using water. Clean with an all-purpose cleaner (e.g., Pine-Sol®) and rinse with water prior to curing. Under no circumstances should catalyst or coating be stored in equipment used for application after use. Clean overspray with soap and water prior to curing. If the coating has hardened, clean with mineral spirits or turpentine solvent. Clean hands with soap and water.

Note: Pine-Sol® is a registered trademark of The Clorox Company.