

# ULTRA-GUARD 5700 RG

## ELASTOMERIC SILICONE

**ULTRA-GUARD 5700 RG** is a single-component silicone elastomeric roof coating used as a restoration system and to protect spray polyurethane foam. Ultra-Guard 5700 RG is a rapid cure polymer that has superior properties including low temperature flexibility, UV protection and ponding water resistance.

Ultra-Guard 5700 RG has good salt, acid, solvent and fair alkali resistance as well as excellent heat resistance up to 250°F (121°C). Ultra-Guard 5700 dry time may be shortened with the addition of an accelerator package.

### RECOMMENDED USES

- Polyurethane Foam
- Roof Membranes
- BUR
- Metal

### PACKAGING

5-gallon pail

50-gallon drum

### COLOR

White, Light Gray, Light Tan, and Medium Gray

### TECHNICAL DATA

#### PHYSICAL PROPERTIES (BASED ON DRAW DOWN FILM)

Property	Test Method	Value
Total Solids by Volume	ASTM D2697	88% ± 2
Total Solids by Weight	ASTM D1644	91% ± 2
Flash Point	ASTM D56	142°F
Viscosity	Brookfield	8,000-15,000 cP
Elongation	ASTM D2370	151%
Tensile Strength @ 100%	ASTM D2370	385 psi
Tear Resistance Die C	ASTM D624	32 lbs/in
Impact Resistance	ASTM D2794	>160
Permeability (U.S. perms)	ASTM E96	4.9
Durometer Hardness: Shore A	ASTM D2240	45 - 55
Weathering QUV 5,000 hours,	ASTM D794/D903	Pass
Volatile Organic Compound	ASTM D2369-20	<50 g/liter (0.40 lbs/gal)


*The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors.*

## CREDENTIALS AND CERTIFICATIONS

UL 790 Class A as an integral component of numerous roof deck assemblies, File #14330

INTERTEK CCRR-1026

Miami Dade NOA 16-0314.03

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	0.88	0.67
	Thermal Emittance	0.91	0.90
	Rated Product ID	0684-0011	
	Licensed Manufacturer ID	0684	
	Classification	Standard Product	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.</small>			
<small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

## REQUIREMENTS

Ultra-Guard 5700 RG should only be applied by professional applicators. Consult General Coatings Manufacturing Corp. for specific application requirements and end uses.

## EQUIPMENT

Ultra-Guard 5700 RG may be sprayed, brushed, or rolled. A high- pressure airless paint pump capable of producing a minimum of 4500 psi at the spray gun should be used. The pump should have a minimum of 3 gallons per minute output and be fed by a 5:1 transfer pump. Always use components rated for pump pressure. Hoses should have a maximum length of 200 feet, a minimum inside diameter of 1/2", a 3/8" whip may be used at the spray gun. The spray gun should be high pressure (5000 psi) with reverse-a- clean spray tip, having a minimum orifice of .019.

### COVERAGE RATE (OVER SPRAY FOAM)

Property	Value
Coverage	15 mils at 1 gallon per 100 square feet
Performance, 10 years	1.5 to 2 gallons per 100 square feet
Performance, 15 years	2 to 2.5 gallons per 100 square feet
Performance, 20 years	2.5 to 3 gallons per 100 square feet
Dry Time, 75°F (24°C), 50% RH	> 3 hours
*Dry Time w/Accelerator Pkg. 75 F, 50% RH	< 2 hours
Recoat Time	7 to 10 days between coats
Final Cure	30 days

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## APPLICATION

Ultra-Guard 5700 RG is designed to be applied through high pressure airless spray equipment. Ultra-Guard 5700 RG has a theoretical dry film thickness is 15 mils when applied at 1 gallon per 100 square feet. The minimum recommended thickness when used as a protective membrane over polyurethane foam is 22 dry mils.

## PERSONAL PROTECTIVE EQUIPMENT

Since the coatings are atomized into a very fine particle distribution during spray application, it is essential that maximum effort is made to protect the spray mechanic and others near the workplace from undue exposure.

## JOB-SITE PROTECTION

Overspray from Ultra-Guard 5700 RG can carry considerable distances and attention should be given to the following:

1. Post warning signs a minimum of 100 feet from the work area.
2. Cover all intake vents near the work area.
3. Minimize or exclude all personnel not directly involved with the spray application.
4. No welding, smoking or open flames.
5. Have CO<sub>2</sub> or other dry chemical fire extinguisher available at the jobsite.
6. Provide adequate ventilation.

## SHELF LIFE AND STORAGE

Ultra-Guard 5700 RG has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 32-100°F (15-35°C). Keep containers closed and store in a dry, cool place away from direct sunlight, heat, sparks, open flame, and moisture.

## FREIGHT CLASSIFICATION

Liquid Plastic Material - NOIBN

## HEALTH AND SAFETY

GCMC is committed to the health and safety of our customers. GCMC products shall only be installed by certified contractors. Applicators are required to follow all proper handling, safety and installation procedures. Safety Data Sheets (SDS) are available on this material. Any individual who may come in contact with these products should read and understand the SDS. Avoid breathing of vapor or spray mist. Care should be taken to exclude all personnel not directly involved with the spray application. Ultra-Guard 5700 should not be applied when the wind is of sufficient velocity to cause overspray of adjacent areas, buildings or people.

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### VAPOR INHALATION

The best form of protection against organic solvents or potentially sensitizing vapors in the workplace is a fresh air supply. Numerous manufacturers, including the 3M Company and MSA, make full face fresh air masks. For maximum protection, we recommend use of NIOSH/MSHA approved self-contained breathing apparatus with a full-face piece operated in a positive pressure mode. In well-ventilated application conditions, the use of Type C organic vapor cartridge respirators is acceptable. Effects of overexposure to vapor are characterized by nasal and respiratory irritation, dizziness, nausea, headache, fatigue, possible unconsciousness or even asphyxiation. Vapor inhalation problems are characterized by coughing, shortening of breath and tightness in the chest. Anyone exhibiting these types of symptoms should be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

### SKIN CONTACT

To prevent excessive skin contact with the sprayed product, we recommend use of fabric coveralls and neoprene or other resistant gloves. Skin contact with liquid components can result in a rash or other irritation. Wash the affected skin area with water. Wipe residual liquid from the skin with a clean cloth, then wipe the affected area with 30% solution of rubbing alcohol. Follow the alcohol wipe with repeated washings with soap and water. If a rash or other irritation develops, see a physician.

**LIMITED WARRANTY.** Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and to be applied by professionals who have prior experience and training with the use and application of our materials, and who are fully aware of all Federal, State and local rules, regulations, and code requirements for storage, transportation, handling, installation, and application. Published technical data and instructions are subject to change without notice. Contact your local representative or visit our website for current technical data, SDS, instructions, and project specific recommendations. We warrant our products to be free of manufacturing defects and that they will meet our current published physical properties within the shelf life of products.

Our sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. We will not be liable for damages of any sort, including remote or consequential or punitive damages resulting from any claimed breach of any warranty whether expressed or implied. We will also not be responsible for use of this product in a manner to infringe on any patent held by others. No warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, adhesion, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. We reserve the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator. Your sole and exclusive remedy against us shall be limited to the paid cost of the materials sufficient to replace any affected areas where product failure has occurred. The cost of replacement materials shall, in no event, exceed the value of the original purchase price of the products, subject to equitable reductions for time of use.

**DISCLAIMER:** We are not a professional contractor, engineering company, consultant, or applicator. We are a manufacturer and we are not a designer/engineer/applicator of record and do not provide advice. We do not specifically review, endorse, or approve of any proposals, owner's specifications, project specifications, or other arrangements. All guidelines, recommendations, statements, and technical data contained herein are based on information and tests conducted in controlled conditions and do not represent applicable for all environments and we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. As a user, you will remain responsibility to satisfy yourself, based on your own information and test, to determine suitability of the product for your own intended use, application and job situation and you assume all risk and liability resulting from use of the products. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. We are not liable to any user or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. No recommendations or statements, whether verbal or in writing, shall be binding upon us except as provided herein, or as provided in writing and signed by an authorized corporate officer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Not responsible for typographical errors.

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### EYE CONTACT

Wear a full-face mask or OSHA-approved protective goggles. Eye Contact with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, eyes should be flushed with water for an extensive period. SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

### FLAMMABILITY

Flash point is 142°F (61°C). Avoid open flame or spark sources. Avoid excessive heat. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors or other ignition sources at locations distant from the material-handling point. Never use a welding or cutting torch on or near the drum. In case of fire, use CO<sub>2</sub>, steam, dry chemicals or water fog.

### TECHNICAL SERVICES

Additional information, such as brochures, technical assistance, roof energy evaluations, life cycle cost analysis, and other roof management services are also available from a General Coatings Manufacturing Corp. Technical Consultant.