

ULTRA-GUARD 5500 LS

LOW SOLIDS ELASTOMERIC SILICONE

ULTRA-GUARD 5500 LS is a single-component silicone elastomer specifically designed to protect construction surfaces from the effects of weather and moisture. Ultra-Guard 5500 LS is a low solids, rapid cure polymer that has superior properties including low temperature flexibility, UV protection and ponding water resistance. Ultra-Guard 5500 LS is designed as a two-coat system consisting of a basecoat with a contrasting-colored topcoat.

Ultra-Guard 5500 LS has good salt, acid, solvent and fair alkali resistance as well as excellent heat resistance up to 250°F (121°C). Ultra-Guard 5500 LS's 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	ASTM-Test Method	Value
Total Solids by Volume	ASTM D2697	66%
Total Solids by Weight	ASTM D1644	78%
Flash Point	ASTM D56	115°F (46°C)
Viscosity	Brookfield	7,000-9,000 cps
Elongation	ASTM D412	225% +/-15
Tensile Strength @ 100%	ASTM D412	500 psi +/-25
Tear Resistance Die C	ASTM D624	45 lbs/in
Permanent Set at Break	ASTM D412	1.0%
Permanent Change - Heat Aged	ASTM D412	0%
Impact Resistance	ASTM D2794	>160
Permeability (U.S. perms)	ASTM E96	2.0
Durometer Hardness: Shore A	ASTM D2240	45 - 55
Water Absorption	ASTM D570	0.2
Weathering QUV 10,000 hours,	ASTM D822	No degradation

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.

CREENTIALS AND CERTIFICATIONS

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

Approved by the California State Fire Marshall

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	0.87	0.63
	Thermal Emittance	0.89	0.90
	Rated Product ID	0684-0008	
	Licensed Manufacturer ID	0684	
	Classification	Silicone Coating	
<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 5500 LS should only be applied by professional applicators. Consult General Coatings Manufacturing Corp. for specific application requirements and end uses.

EQUIPMENT

Ultra-Guard 5500 LS 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	10.5 mils at 1 gallon per 100 square feet
Performance, 10 years	2.25 to 2.5 gallons per 100 square feet
Performance, 15 years	3 to 3.25 gallons per 100 square feet
Performance, 20 years	3.5 to 4 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 5500 LS is designed to be applied through high pressure airless spray equipment. Ultra-Guard 5500 LS theoretical dry film thickness is 10.5 mils when applied at 1 gallon per 100 square feet. The minimum recommended thickness when used as a protective membrane over polyurethane foam is 24 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 5500 LS 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 CO₂ or other dry chemical fire extinguisher available at the job site.
6. Provide adequate ventilation.

SHELF LIFE AND STORAGE

Ultra-Guard 5500 LS has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°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 5500 LS 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.

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 115°F (47°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 CO₂, 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.

LIMITED WARRANTY. We warrant our Products to be free of manufacturing defects and to comply with the Product's current published physical properties when tested under controlled conditions. Our sole responsibility is limited to replacement of that portion of any Products found to be defective at the time of manufacture. There are no other warranties of any nature whatsoever, whether expressed or implied, including an express disclaimer of any warranty of merchantability or fitness for a particular purpose. Further, we disclaim any liability for damages of any type, however caused, including remote, consequential damages, or special damages resulting from any theory of liability, whether based on tort, negligence, or strict liability. We disclaim responsibility for any claims of intellectual property infringement through use of our Products in any manner. Where Products are used as a waterproofing membrane or floor coating, no warranty or guarantee is issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, abnormal wear and tear, or improper application by the applicator. Damage caused by abuse, neglect, lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded. In all instances and as a pre-condition to any available remedy, we reserve the right to conduct sample testing and performance analysis on any materials claimed to be defective, performed prior to any repairs being made by owner, general contractor, or applicator. Our limited warranty is void if repairs have been made or attempted, or if the claimed defect has been adulterated prior to our ability to conduct a formal investigative analysis.

DISCLAIMER: Please read all information in the general guidelines, technical data sheets, application guide and safety data sheets (SDS) before applying material. Products are for professional use only and should only be applied by professionals who have prior experience with our Products or have undergone specific training in their proper application. Published technical data and instructions are subject to change without notice. Contact your local representative or visit our website for current technical data and instructions. All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of these tests are not guaranteed and are not to be construed as a warranty, either expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with any product. It is the user's responsibility to satisfy himself, by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his own use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. We are not liable to the purchaser, end-user, or any third party for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, our Products. Recommendations or statements, whether verbal or in writing, shall not be binding upon us unless in writing and signed by one of our authorized corporate officers. Technical and application information is provided for establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and we make no claim that these tests or any other tests, accurately represent all environments. We are not responsible for typographical errors. © General Coatings Manufacturing Corporation. All Rights Reserved. Revision ULTRA-GUARD 5500 LS_08172020EA