

**GENERAL COATINGS'**  
**ULTRA-FLEX 1800**  
FINISH COAT, REFLECTIVE ACYLIC ROOF COATING

**ULTRA-FLEX 1800** is a highly reflective, pure acrylic co-polymer, elastomeric coating for use over a variety of substrates including BUR, single-ply and metal roofing. Ultra-Flex 1800 meets ASTM D6083 requirements for type 1, including critical properties such as tensile strength, elongation, wet adhesion and weatherability.

Ultra-Flex 1800 is formulated as a maintenance coating to have excellent adhesion, ease of application, dirt pickup resistance and low temperature flexibility.

**RECOMMENDED USES**

- Polyurethane Roof Foam
- Acrylic Recoat
- BUR

**PACKAGING**

5-gallon pail

55-gallon drum

250-gallon tote

**COLOR**

Standard colors are Tan, Gray and White. Other colors are available on special order.

**TECHNICAL DATA**
**PHYSICAL PROPERTIES (BASED ON DRAW DOWN FILM)**


Property	ASTM-Test Method	Requirement	Value
Total Solids by Volume	ASTM D2697	> 50	54% ± 2
Total Solids by Weight	ASTM D1644	> 60	66% ± 2
Flash Point	ASTM D56	No Reference	>212°F (100°C)
Initial Elongation	ASTM D2370	100 Minimum	125% ± 25
Initial Tensile Strength	ASTM D2370	200 Minimum	310 ± 50 psi
Elongation After Accelerated	ASTM D2370	100 Minimum	125% ± 25
Tear Resistance Die C	ASTM D624	> 60	70 lbs/in
Flexibility 1/8" Mandrel	ASTM D522	- 15°F (-26°C)	Pass
Impact Resistance	ASTM D2794	No Reference	>160
Tension Set @ 100%	ASTM D412	No Reference	0%
Durometer Hardness: Shore A	ASTM D2240	No Reference	65 - 75
Permeance	ASTM D1653	50 Maximum	6 perms
Water Swelling	ASTM D471	20 Maximum	10
Fungi Resistance (zero = No Growth)	ASTM G21	Zero Rating	Zero Rating
1000 hr Accelerated Weathering	ASTM D4798	No Cracking or Checking	No Cracking or Checking
Dry Adhesion	ASTM C794, D903	No Reference	3.5 pli
Wet Adhesion	ASTM C794, D903	2 Minimum	2.9 pli

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

Ultra-Flex 1800 is classified as Class A by Underwriters Laboratories in accordance with UL-790 and is approved by the California State Fire Marshall

Ultra-Flex 1800 exceeds all the minimum requirements for ATSM D6083 and is Title 24 compliant.

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	.83	.69
	Thermal Emittance	.90	.91
	Rated Product ID	0684-0006	
	Licensed Manufacturer ID	0684	
Classification		Acrylic 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>			

### COVERAGE RATE

Property	Value
Coverage	8.6 mils at 1 gallon per 100 square feet
Performance, 10 years	3 to 4 gallons per 100 square feet
Performance, 15 years	4 to 4.5 gallons per 100 square feet
Performance, 20 years	5 to 5.5 gallons per 100 square feet
Dry Time	4 hours
Recoat Time	12 hours
Final Cure	30 days

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Ultra-Flex 1800, when used as a protective membrane over polyurethane foam, should be applied to a minimum of 24 dry mils in two applications. Coarse or textured surfaces may require more coating to obtain the desired dry film thickness.

## REQUIREMENTS

Ultra-Flex 1800 is a water borne acrylic elastomeric which should be applied only by trained or manufacturer-approved roofing experts familiar with the properties of this material.

## EQUIPMENT

Ultra-Flex 1800 may be applied by brush or roller, and by airless spray equipment.

## APPLICATION

Surfaces to which Ultra-Flex 1800 is to be applied shall be free of water, grease, oils, dirt, debris, and other foreign materials.

Apply Ultra-Flex 1800 at temperatures above 50°F (10°C). Apply only when weather conditions will permit drying before rain, dew or freezing temperatures. Cool temperatures and high humidity may retard cure.

Ultra-Flex 1800 must be mixed thoroughly prior to application to assure uniformity. All special colors should be mixed prior to application to assure uniform dispersion of the pigments.

Apply Ultra-Flex 1800 at a MAXIMUM of 2 gallons per 100 square feet. Base and Intermediate coats shall be back rolled to provide uniform coverage. Back rolling of the finish coat shall be avoided unless the surfaces are unusually rough. If additional coating is required, apply in two or three coats. Ultra-Flex 1800 should not be applied directly over mineral cap-sheet or to any surfaces where extra "bleed-blocking" resistance may be needed. In such situations, use Ultra-Flex 1500 as a primer base coat.

## PERSONAL PROTECTIVE EQUIPMENT

Since Ultra-Flex 1800 is 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.

The best form of protection against organic solvents is the use of Type C organic vapor cartridge respirators. To prevent excessive skin contact with the sprayed product, we recommend use of fabric coveralls and neoprene or other resistant gloves. Wear safety glasses or OSHA-approved protective goggles.

## JOB-SITE PROTECTION

Overspray from Ultra-Flex 1800 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-Flex 1800 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 40-80°F (4.4-26°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

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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.

**VAPOR INHALATION**

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**

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**

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.**

**TECHNICAL SERVICES**

Additional information, such as brochures, technical assistance, and 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-FLEX 1800\_04222021EA