

**GENERAL COATINGS'**  
**ULTRA-FLEX 1600**  
FINISH COAT, ACRYLIC ROOF COATING

**ULTRA-FLEX 1600** is a renewable multi-purpose, 100% acrylic, water based elastomeric coating for use as a maintenance product or a restoration system. Ultra-Flex 1600 exceeds ASTM D6083 requirements for critical properties such as tensile strength, elongation, wet adhesion and weatherability.

Ultra-Flex 1600 is formulated to have excellent adhesion, ease of application, dirt pickup resistance and low temperature flexibility.

**RECOMMENDED USES**

- Single Ply Membrane
- Metal Roofing
- Acrylic Recoat
- Top coat over Ultra-Flex 1500

**PACKAGING**

5-gallon pail

55-gallon drum

250-gallon tote

**COLOR**

White, Off White, Light Gray, Light Tan, and Medium Gray

**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 |
| 8000 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 1600 is classified as Class A by Underwriters Laboratories in accordance with UL-790 and is approved by the California State Fire Marshall

Ultra-Flex 1600 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>  |                          |                 |                  |

As an ENERGY STAR® Partner, General Coatings Manufacturing Corp., Inc. has determined that this product, in white, meets the ENERGY STAR® guidelines.



### 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                                  |

*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.*

Ultra-Flex 1600, 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 1600 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 1600 may be applied by brush or roller, and by airless spray equipment.

## APPLICATION

Surfaces to which Ultra-Flex 1600 is to be applied shall be free of water, grease, oils, dirt, debris, and other foreign materials.

Apply Ultra-Flex 1600 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 1600 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 1600 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 1600 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 1600 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 1600 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 1600 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

**GENERAL COATINGS'  
ULTRA-FLEX 1600**  
FINISH COAT, ACRYLIC ROOF COATING**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.

**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 1600\_08172020EA