

GC ULTRA-BOND U

AROMATIC POLYURETHANE PRIMER

GC ULTRA-BOND U is a two component (1:1), high solids, liquid applied aromatic polyurethane with enhanced bonding characteristics as an intercoat*. GC Ultra-Bond U can be used as adhesive primer for coating restorations of low energy roof membranes.

GC Ultra-Bond U is a low viscosity, low odor primer with a fast re-coat time.

RECOMMENDED USES

- Polyurethane / Polyurea Coatings*
- PVC Membrane
- TPO Membrane

PACKAGING

2-gallon kit: Side-A at 1 gallon and Side-B at 1 gallon

10-gallon kit: Side-A at 5 gallons and Side-B at 5 gallons

COLOR

Side-A: Black

Side-B: White

PHYSICAL PROPERTIES	
Coverage	1 gal / 300 sqft
Dry Film Thickness (1 gal /300 sqft)	5 ± 1 mils (102µ)
Specific Gravity	Side-A: 1.22 Side-B: 0.98
Pot Life @ 75°F (24°C), 50% R.H.	30-60 minutes
Total Solids by Weight, ASTM D2369	97.8 ± 2%
Total Solids by Volume, ASTM D2697	98.8
Viscosity at 75°F (24°C), Part-A & Part-B Combined	500 ± 200 cps
Volatile Organic Compound, ASTM D2369-81	25 g /L
Dry Time	3-5 hours
Topcoat Time	8-12 hours
Recoat Time	24-48 hours
Dry times vary by field condition but tested above @ 77°F (25°C) - 50% R.H at 6-8 mil thickness.	

REQUIREMENTS

GC Ultra-Bond U is an aromatic polyurethane primer which should be applied only by trained or manufacturer-approved roofing experts familiar with the properties of this material.

EQUIPMENT

GC Ultra-Bond U primer is a plural component that is designed for airless sprayer or conventional spray equipment. It can be applied using an airless sprayer, brush, or phenolic resin core roller.

APPLICATION

Surfaces must be dry, clean and free of foreign matter. Recommended surface temperature should be greater than 50°F (10°C) and at least 5°F (3°C) above the dew point.

Do not dilute GC Ultra-Bond U. Mix no more material than can be used within 45 minutes.

GC Ultra-Bond U should be applied at the rate of 1 gallon (mixture of Side-A & Side-B)/300 sqft. Coverage rate will depend on surface roughness and porosity.

Allow GC Ultra-Bond U to become tack free before applying the coating. Not UV stable.

GC Ultra-Bond U is very sensitive to heat and moisture. Higher temperatures and/or high humidity will significantly accelerate the cure time and pot life. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extend the cure time.

Containers that have been opened must be used as soon as possible. GC Ultra-Bond U is difficult to clean up after it has cured.

MIXING

The volume mixing ratio is 1 part Side-A to 1 part Side-B (1A:1B). Do not mix in an up and down motion.

GC Ultra-Bond U Side-A and Side-B should be thoroughly mixed individually prior to combining to ensure a homogeneous material. GC Ultra-Bond U must always be mixed with 1 part Side-A and 1 part Side-B (1A:1B). The combined components should be thoroughly mixed using a mechanical mixer at slow speed.

PROTECTIVE EQUIPMENT

Since GC Ultra-Bond U 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 GC Ultra-Bond U 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 jobsite.
6. Provide adequate ventilation.

SHELF LIFE AND STORAGE

The shelf life of GC Ultra-Bond U is 12 months from the date of manufacture when stored in original unopened containers at temperatures between 50–75°F (10-24°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 product. Any individual who may come in contact with these products should read and understand the SDS.

VAPOR INHALATION

Respiratory protection is MANDATORY! 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.

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.

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