

GC ULTRA-BOND 40

WATERBASED METAL PRIMER

ULTRA-BOND 40 is a water based, acrylic-metal primer for steel surfaces. Ultra-Bond 40 is fast drying, VOC (less than 100 gms./liter), and rust inhibitive. Ultra-Bond 40 can be used with all Ultra-Flex Acrylic, Ultra-Guard Silicone, and Ultra-Thane Roof Foam systems. Ultra-Bond 40 is an interior and exterior metal maintenance primer that is free of heavy metal hazards.

RECOMMENDED USES

- Blasted Steel
- Ferrous Metal
- Galvanized Metal
- Non-Ferrous Metals

PACKAGING

5-gallon pail

55-gallon drum

COLOR

White

TECHNICAL DATA

PHYSICAL PROPERTIES			
Coverage Rate		Depending on the substrate; 1/4 to 1/2 gallon per 100 square feet or 205-342 sqft/gallon	
Wet mils		5.0 - 8.0	
Dry mils		2.0 - 3.0	
NOTE: Brush application may require multiple coats to achieve maximum film thickness and uniformity of appearance.			
Curing Mechanism		Carrier/Solvent Evaporation	
Drying Schedule (temperature & humidity dependent) @ 50% RH @ 5 mils wet:			
	40°F	77°F	110°F
To Touch	4 hr	2 hr	1 hr
Tack Free	4 hr	2 hr	1 hr
To Recoat	4 hr	2 hr	2 hr
To Top Coat	6 hrs	4 hrs	4 hrs
Flash Point		74°F (Pensky-Matens Closed Cup)	
Volatile Organic Compound, ASTM D2369-81		86 g/l, or 2.57 lbs./gal.	
Volume Solids		40% +/- 2%	
Weight Solids		50% +/- 2%	
Weight/Gallon		10.35 lbs./gal.	
NOTE: Primer should be top-coated within six months.			

REQUIREMENTS

Ultra-Bond 40 is an water based metal primer which should be applied only by trained or manufacturer-approved roofing experts familiar with the properties of this material.

EQUIPMENT

Ultra-Bond 40 primer is designed for airless or conventional spray equipment It can be applied using an airless sprayer, brush, or phenolic resin core roller.

Methods

Brush:

Nylon Bristle. Confined to small areas and touch-up

Airless Spray:

Pressure: 1800- 3000 psi

Tip: .015" - .019"

Filter: 60 mesh Hose: 1/4"

Conventional Spray:

50 psi atomization pressure, 15-20 psi fluid pressure. Binks gun model 18, air nozzle 63PB, fluid nozzle 63C or equivalent equipment.

APPLICATION

Intimate contact of the steel surface and primer is necessary for adhesion and rust inhibition.

Double coat all edges, corners, welds and crevices.

Application Conditions:

Temperature: air, surface, material: 50°F – 120°F (at least 5°F above the dew point)

Relative Humidity: 85% maximum. Do not apply if rain, dew fog, heavy moisture, or freezing temperatures are in the 8 hour forecast.

MIXING

Ultra-Bond 40 should be thoroughly blended using a mechanical mixer at slow speed or for at least 5 minutes if mixed by hand.

Reducer: Water

Reduction: Airless spray: None

Conventional spray: reduce up to 5% by volume as necessary to be compatible with the existing application and environmental conditions.

SURFACE PREPARATION

Surface must be dry and in sound condition. Remove oil, dust, dirt, mill scale, loose rust, and other contaminants to ensure good adhesion.

For maximum performance, the surface must be abrasive blasted for proper adhesion. All blasted steel must be primed the same day.

Remove all grease and oil from the surface by solvent cleaning per SSPC-SP1. Minimum surface preparation is Hand Tool Clean per SSPC-SP2, or Power Tool Clean per SSPC-SP3. For better performance, the surface should be blast cleaned to Commercial Blast per SSPC-SP6.

PERSONAL PROTECTIVE EQUIPMENT

Since Ultra-Bond 40 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 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-Bond 40 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. Provide adequate ventilation.

SHELF LIFE AND STORAGE

The shelf life of Ultra-Bond 40 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.

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

For exterior use only. Do not use indoors. Put on appropriate personal protective equipment. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

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.

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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: 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.

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