



Acrylex 400 Primer

Technical Data Sheet



PRODUCT DESCRIPTION

Acrylex 400 Primer is a single component, premium-quality, exterior acrylic latex primer that is blister and stain resistant, permanently flexible, and highly durable. It exhibits excellent corrosion resistance over metal substrates, alkali resistance over concrete and masonry, and tannin-blocking ability over wood surfaces. Due to its application versatility, it can be top-coated with a wide variety of finish coats. Its fast-dry quality, weather-resistant characteristics, and extended open time also make it an effective shop primer. Possesses excellent non-lifting characteristics.

PACKAGING & SHELF LIFE

- 1-gallon (3.8 liter) can
- 5-gallon (18.9 liter) pail
- 55-gallon (208 liter) drum

Shelf Life: 18 months from date of manufacture in unopened containers, if stored properly in a clean and well-ventilated area at 40°F – 90°F (4°C – 32.2°C). Storage outside this temperature range may shorten shelf life. Keep containers covered when not in use. Do not allow material to freeze.

BASIC USES & ADVANTAGES

Acrylex 400 Primer is effective in providing corrosion protection, flash rust resistance, and enhanced adhesion over steel, aluminum, and galvanized metal surfaces.

Acrylex 400 Primer can be used over new or unpainted wood, where it is effective at blocking tannin bleed-through. It is also effective at locking down residual chalkiness on previously painted exterior surfaces. Over concrete and masonry substrates, it provides alkali resistance.

Advantages:

- **Application Versatility...** Exhibits excellent adhesion over a wide variety of substrates: steel, aluminum, galvanized metal, galvalume, wood, concrete, masonry, brick, and selected previously painted surfaces.
- **Non-Lifting...** Top coats with strong solvents may be applied over cured **Acrylex 400 Primer** without lifting or bubbling the primer from the metal surface.
- **Excellent Flexibility...** The high ratio of acrylic resins provides for maximum penetration and flexibility characteristics. It will not become brittle with age.
- **VOC Compliant...** Water-based product and conforms to most local, state, and federal environmental regulations and VOC requirements.

PHYSICAL PROPERTIES

ACRYLEX 400 PRIMER	
Solids by Weight	46% (± 1) [ASTM D2369]
Solids by Volume	36.2% (± 1) [ASTM D2697]
Weight per Gallon	10.1 lb (4.6 kg) (± 2) [ASTM D1475]
VOC	< 100 g/L (calculated)
Application Temperature (air, surface):	50°F – 105°F (10°C – 40°C)

Dry Time to Touch	20–30 minutes @ 75°F (24°C), 50% R.H. [ASTM D1640]
Cure Time for Recoating	1–24 hours @ 75°F (24°C) [ASTM D1640] Recoating time for water-based products is approximately 1 hour. Allow 24 hours prior to recoating with solvent-based products.

APPLICATION INSTRUCTIONS

Substrate Preparation: All surfaces must be clean and dry, and free from dirt, grease, oils, curing or form release agents, soapy films, pollution fallout, surface chemicals, unsound rust, scale, and other foreign contaminants that may interfere with optimum adhesion. Refer to technical data for detailed preparation instructions.

Application: **Acrylex 400 Primer** may be applied by brush or conventional or airless sprayer. Coverage rate will vary from 0.33 – 0.67 gallons/100 ft² (1.34 – 2.73 L/ 10 m²), depending upon the substrate, surface profile, and porosity. One coat is usually sufficient for priming most surfaces.

Spray Application: Any airless spray pump capable of 1,000 psi (6,980 kPa) and 0.5 gallon (1.9 liters) per minute output can be used. A reversible, self-cleaning tip with orifice size of 0.015" – 0.021" (0.38 mm – 0.53 mm) and a minimum fan angle of 40° is recommended. Filter screens should be 60 mesh or smaller. Use 1/4" (6.4 mm) inside diameter, nylon high-pressure hose for lengths up to 75 ft (23 m) from pump. From 75 ft – 200 ft (23 m – 51 m), use 3/8" (9.5 mm) inside diameter hose added to pump side of

existing 1/4" hose to maintain pressure and delivery. Over 200 ft (51 m), use 1/2" (12.7 mm) inside diameter hose added to pump side of existing hose.

When using **Acrylex 400 Primer** as a spot primer over previously coated surfaces, abrade the existing material to a feather edge so that the top coat makes a smooth transition over the primed areas. Apply using multi-directional spray passes to ensure positive coverage. On porous or textured surfaces requiring more than one coat, subsequent coats should be applied in a direction perpendicular to the previous coat after it has dried.

Acrylex 400 Primer can be coated as soon as it is thoroughly dried, and should normally be coated within 48 hours of application.

For Application Questions: Contact GAF Technical Services at 1-800-766-3411 or visit gaf.com.

Applicable Standards: ASTM D2369, ASTM D2697, ASTM 1475, ASTM D1640

GAF Liquid-Applied

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For technical, system, and warranty information, visit gaf.com or call 1-800-766-3411.

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APPLICATION INSTRUCTIONS, CONT'D

SUBSTRATE	COVERAGE RATE	SUBSTRATE	COVERAGE RATE
Galvanized Metal	0.3 gal/100 ft ² (1.4 L/10 m ²)	Standard Block	0.5 gal/100 ft ² (2 L/10 m ²)
Steel	0.5 gal/100 ft ² (2 L/10 m ²)	Lightweight or Textured Block	0.7 gal/100 ft ² (2.7 L/10 m ²)
Aluminum	0.3 gal/100 ft ² (1.4 L/10 m ²)	Wood	0.3 – 0.4 gal/100 ft ² (1.4 – 1.6 L/10 m ²)
Smooth Concrete	0.4 gal/100 ft ² (1.6 L/10 m ²)		

LIMITATIONS & PRECAUTIONS

Acrylex 400 Primer will freeze and become unusable below 32°F (0°C). Do not ship or store unless protection from freezing is available.

Do not apply if conditions will not permit complete cure before rain, dew, or freezing temperatures occur. Do not apply **Acrylex 400 Primer** at temperatures below 50°F

(10°C), or when there is a possibility of temperatures falling below 32°F (0°C) within 2 hours of application.

SAFETY & HANDLING

Approved OSHA/NIOSH chemical cartridge respirator must be worn by applicator. Avoid contact with eyes and skin. For specific information regarding safe handling of this material, please refer to the Safety Data Sheet (SDS).

CLEAN-UP

Use water and **United Cleaning Concentrate (UCC)** to thoroughly flush the equipment. Purge the water from the system using a mild solvent, leaving the solvent in the lines until next use.

GAF

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See applicable warranties and guarantees for complete coverage and restrictions.