



# GCR™ 47

Waterborne Acrylic Primer



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## PRODUCT DESCRIPTION

**GCR 47** is a 100% acrylic single component waterborne. It is designed as a quick drying rust inhibitive protective coating for high and low humidity, low temperature applications.

**GCR 47** offers excellent adhesion and performance in adverse application conditions.

- Low VOC
- Water Reducible
- Corrosion Resistant
- Low Odor and Fast Drying
- Excellent Color and Gloss Retention
- Green Compliant

### Intended Uses:

- Pulp & Paper Mills
- Bridges & Structural Steel
- Steel Tanks and Piping
- Fiberglass, PVC, Masonry, etc.
- Manufacturing & Processing Plants
- Transportation and Railcars
- Low Temperature Applications

## PRODUCT CHARACTERISTICS

**Resin Type:** Acrylic resin

**Finish:** Flat

**Colors:** White, gray and red oxide; Custom colors.

**VOC:** <50 g/L

**Flash Point:** Non-flammable

**Solids by Volume:** 37% (± 2)

**Mix Ratio:** Single component

**Reducer/Clean-Up:** Clean, fresh water

**Method of Application:** Airless sprayer, brush or roller

**Drying Schedule @ 5.0 mils wet – 50% RH:**

Temp/Humidity Dependent	50°F	77°F	110°F
To Touch:	1 HR	40 MIN	30 MIN
Tack Free:	2 HRS	1 HR	1 HR
To Recoat:	2 HRS	1 HR	1 HR

**Shelf Life:** 12 months, unopened @ 77°F. Re-inspect after one year.

**Storage:** 45°F-90°F. Keep from freezing or prolonged exposure to sunlight and heat. Keep closed during storage.

## PRODUCT SYSTEM OPTIONS / COMPATABILITY

**GCR 5 Series** Acrylic Top Coat

**GCP 1000** Aliphatic Polyurethane Top Coat

**GCR 37** Acrylic Polyurethane Top Coat

## PACKAGING INFORMATION

- Packaging:** 1 gallon (4 units to a shipping case)  
5 gallon pail
- Weight:** 1 gallon = 10 lbs  
5 gallon = 50 lbs

**Class 55**

## ASTM TEST RESULTS

Substrate: Steel / Preparation: SSPC-SP10

2 Coats GCR 47 Acrylic Waterborne

**Abrasion** ASTM D4060 (CS17 wheel/1000 cycles/ 1kg load)  
Result = 107 mg loss

**Adhesion** ASTM D4541 = 500 psi

**Corrosion** ASTM D5894 = Excellent

**Direct Impact Resistance** ASTM D2794 = >160 in. lbs.

**Dry Heat Resistance** ASTM DD2485 = 300°F

**Flame Spread Rating** ASTM E84-91A

Result: Flame Index Spread – 5/Smoke Density Index – 0

**Flexibility** ASTM D522 (180° bend, 1/8"mandrel) = Passes

**Hardness** ASTM D3363 = 2B

**Moisture Condensation Resistance** ASTM D4585

Result: 100°F, 300 Hours = Passes

**Salt Spray** ASTM B117 (500 hours) = Excellent

## THEORETICAL COVERAGE RATES

The following coverage rates approximate and for estimating purposes only. Test application on actual surfaces to accurately determine coverage. Coverage does not include material loss due to surface porosity, applicator technique, climate conditions, spillage, film build and method of application:

Substrate	Ft <sup>2</sup> per Gallon
Concrete	250
Masonry	250
Metal, Steel	350
Block	200

## CONTACT INFORMATION

For further technical questions or warranty issues, please call:

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