



Basic Uses & Description:

309 Rust Converting Primer is A rust-converting primer that chemically transforms red hematite rust into stable black magnetite, creating a hardened surface for coating. Formulated with an acrylic carrier, it's ideal for silicone or acrylic systems on heavily rusted metal.

Rust-to-Primer Chemistry:

Converts red hematite rust into stable black magnetite, forming a hard, coatable surface without mechanical removal.

Ideal for Silicone Systems:

Acrylic carrier promotes adhesion under silicone coatings, making it a go-to primer for rust-damaged metal roofs.

Surface Prep Warning for Acrylics:

Must be rinsed before applying acrylics to prevent discoloration due to its acidic formulation.

Application:

SURFACE PREP:

309 Rust Converting Primer is applied to properly prepared metal substrates exhibiting active red rust (hematite). All loose rust, scale, flaking paint, grease, oil, and surface contaminants must be removed prior to application by wire brushing, grinding, or power washing as required. Sound, tightly adhered rust may remain, as complete removal to bare metal is not necessary. Surfaces must be clean, dry, and free of standing water. Do not apply over galvanized, painted, or non-rusted metal.

APPLICATION:

Apply only when ambient and surface temperatures are between 50°F and 120°F and rising, with no rain, condensation, or freezing conditions expected during cure. Apply by brush, roller, or airless spray equipment suitable for low-to-medium viscosity materials.

Mix thoroughly before use. Do not thin.

Apply a uniform coat sufficient to fully wet and convert rusted areas, avoiding excessive buildup or puddling.

Allow approximately 24 hours at 77°F and 50% relative humidity for rust conversion to occur. Converted areas will darken to a black or deep gray appearance. Cure times may be extended under cooler temperatures or higher humidity.

Once conversion is complete and the surface is dry, silicone coatings may be applied directly. When acrylic coatings are specified, the surface must be rinsed with clean water and allowed to dry prior to coating to prevent discoloration from residual acidity.

309 Rust Converting Primer is not intended as a standalone coating and must be topcoated as part of a complete system.

TEST PROPERTY	TEST VALUE
Weight per Gallon	8.8 lbs per gallon
Viscosity KU	65 Ku
Solids by Weight	48% Nominal
pH	4, Nominal
VOCs	<50 g/l
Color	Clear White
Cure Time	24 hours (77°F & 50% Relative Humidity)
Packaging	Tote, Drum, 5 & 1 Gallons
Application Temp	50°F to 120°F
Coverage Rates	.25 - .5 gal @ 4 WFT (per 100 sq ft)

Handling & Storage:

Clean up with soap and water. Prevent material from entering drains, sewers, or surface waters.

Two years from date of manufacture. Store in a dry place between 60-90° F. Protect from freezing in shipment and storage.

Safety:

Causes skin irritation. Causes serious eye irritation. Before handling, read the Safety Data Sheet for protective equipment and additional safety, health, and environmental information.

Please refer Safety Data Sheet for complete safety and regulatory information. Request Safety Data Sheet: info@koolcoatsusa.com

FOR PROFESSIONAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

Packaging Sizes:

309 Rust Converter Primer comes in Totes, Drums 5 gallon and 1 gallon and 12 x 1 quart containers.

Note:

Severely deteriorated or structurally compromised metal substrates may require repair or replacement and are not warrantable solely by rust conversion.