



White-Knight® Metal Primer

PRODUCT DESCRIPTION

White-Knight® Metal Primer is a high-performance, single-component all-purpose, aromatic urethane, moisture curing primer for use where rust inhibiting and chemical corrosion resistance are required on metal systems. Its non-lifting properties make it an ideal primer to use with urethane topcoats. White-Knight Metal Primer has excellent corrosion resistance and should be used as a primer surface with the White-Knight coating system when used over metal substances.

PRODUCT ADVANTAGES

Durable - White-Knight Metal Primer has excellent adhesion to properly prepared metal surfaces. Its resistance to mild industrial fumes and light chemical conditions make it an excellent primer in a restoration coating system.

User Friendly - The ease of application makes White-Knight Metal Primer fast and simple to install. This primer can be used over a variety of properly prepared metal substrates.

Seals & Conditions - White-Knight Metal Primer combined with the White-Knight coating system offers the customer the opportunity to protect and to preserve their investments before the roof needs to be replaced due to oxidation and rust.

Protect & Maintain - The White-Knight Metal Primer is designed to maintain and protect metals from rusting and breaking down, while giving you a clean surface for your coating system.

USES

White-Knight Metal Primer is used as a primer with the White-Knight or White-Knight Plus coating systems on metal roof systems. It is designed for application to steel, galvanized, galvalume, kynar coated, copper, aluminium, and stainless steel metal roof systems.

SURFACE PREPARATION

Wearing protective clothing, gloves and glasses, remove any mildew by washing with a solution of three quarts of warm water and TSP or Simple Green solution. It is important to rinse thoroughly to remove any residue left by the cleaner.

Repair gaps, holes and joints in the metal roof with appropriate patching materials. Dull all glossy surfaces by sanding to assure maximum adhesion. Wipe galvanized surfaces clean with MEK prior to application.

For optimum surface preparation, grit blasting is recommended. Please contact Garland Technical for various substrates when grit blasting is permitted. All surfaces should be cleaned and de-greased prior to grit blasting with organic solvents, caustic solutions, or pressure washing with a solution of TSP or Simple Green (2500 psi recommend).

NOTE: A spray nozzle of 15 degrees or greater will help eliminate pin point penetration and ensure water does not penetrate the substrate or interior of the structure.

Kynar® Coated Metal - Recommended 80 mesh or finer grit abrasive. Then wipe surface with solvent.

New Galvanized Steel or Galvalume - Brush blast using caution not to remove galvanizing. The surface should be prepared to a SSPC-SP-7 or Nace No. 4 brush blast specification.

Steel - The surface should be grit blasted to an SSPC-SP-6 or Nace No. 2 commercial blast. The finish should be free of loose mill scale, rust scale and old coatings.

Stainless Steel - There are various types of stainless steel, including 304 (the softest), 316, 316 L, and 904. Use a 120 psi blast nozzle. Do not grit blast with iron or steel grit abrasives.

Aluminium - Recommended 80 mesh or finer grit abrasive.

Copper - Brush blasting to remove oxides. Follow specifications of SSPC-SP-7 or Nace No. 4 surface preparation.

APPLICATION

All surfaces must be sound, dry, clean and free of oil, dirt, grease, wax, mildew, loose or flaking paint and rust by scraping, sanding, wire brush or blasting.

Mix for 5 minutes before application, ensuring that the product is an even colour. Then, apply White-Knight Metal Primer over a small area at 0.1 l/m² and let set for 3 hours before applying top coat. Monitor to ensure adhesion and note if sag occurs. If any sag occurs, adjust coverage as necessary.

Brush & Roller - Apply with synthetic brush or roller (short nap) of appropriate size and/or nap for the surface being painted.

Spray - Consult the White-Knight Metal Primer Spray Application Guide.

SAFETY

It is good practice to wear chemical splash goggles to avoid contact with eyes. Avoid prolonged contact with skin. Wash thoroughly after handling.

See Material Safety Data Sheet for additional safety information and specific product analysis.

White-Knight Metal Primer

PRECAUTIONS

- Do not apply when temperatures are below 5°C
- Not recommended for use when there is a 40% chance of rain in the forecast
- Must be top coated within 48 hours of application
- Not recommended for use on lead roof systems
- Prior to coating any surface, be sure the coating will adhere by performing an adhesion test
- Use low-speed mixing equipment to avoid inducing moisture into the primer

For specific application recommendations, please contact your regional Garland Technical Manager or the Garland Technical Department.

Technical Data	White-Knight Metal Primer
Flash Point (ASTM D 93)	41 °C
Solids by Volume	50%
Dry Time @ 25°C 50% RH	
To Touch	45 min.
To Tack Free	1.5 hours
To Top Coat	3 hours
Colour	Non-leafing aluminium
Clean up	Lacquer Thinner
Wet Film Thickness @ 0.1 l/m ²	101 microns
Dry Film	51 microns
Coverage	0.1 l/m ²
Packaging	10.6 l

Eco-Facts	White-Knight Metal Primer
VOC	400 g/l

Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. A ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or Garland Corporate Office for more information.

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