

White-Knight Metal Primer – 7841

Technical Data Sheet



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.

Features:

- ✓ Durable
 - White-Knight Metal Primer has excellent adhesion to properly prepared metal surfaces. Its resistance to mild industrial fumes and light chemical conditions makes 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 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.

Technical Data	White-Knight Metal Primer
Size	6.05kg (part A 5.5kg / part B 0.55kg)
Base	Epoxy
Appearance	Beige
Temperature resistance	-30 to 90°C
Coverage rate	100ml/m ²
Application Temperature	5 to 30°C
Solids	71%
Shelf life	12 months
Storage	5 to 25°C
Touch dry time	30 minutes
Overcoating window	2-4 hours

If you require any further information please contact your local Garland Technical Manager.



Garland UK

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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 the entire contents of part A with part B for 2-3 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 2-4 hours before over coating. 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.

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.

Precautions

- Do not apply when temperatures are below 5°C forecast
- 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



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Under REACH regulation, all users of polyurethane products made by reacting diisocyanate are required to complete relevant training in relation to safe use. As of 24th August 2023, training is required for all professional users of PU products (with a total monomeric diisocyanate concentration of > 0.1%) within the EU and UK. As a manufacturer, we have a responsibility to notify you of the training requirements. It is down to the users and their employees to complete the training and keep records.

To participate in the free training programme, go to the platform and use the code FEICA_21_G

Access to the training platform: <https://safeusediisocyanates.eu/>



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