Niram Rust_O_Paint

Waterborne acrylic direct-to-metal enamel

1. Product description

Niram Rust_O_Paint is a tough waterborne acrylic direct-to-metal (DTM) enamel for interior and exterior use. It provides a smooth, durable finish on properly prepared metal, drywall and masonry surfaces. A special inhibitor helps prevent flash rust on ferrous metal, while the dry film resists UV exposure and moisture.

2. Field of application

For light-to-moderate industrial, commercial and select residential use. Suitable applications include industrial maintenance, general metal finishing and fabrication, and chemical processing facilities.

Suitable substrates include carbon steel, iron, aluminium, galvanized steel, other non-ferrous metals, corrugated metal sheeting, concrete, masonry, fibreglass and drywall.

Not for immersion service. Not recommended for wood, plastic or glass.

3. Product properties

• Waterborne acrylic enamel for interior and exterior use

• Rust-inhibitive formulation that resists flash rust on metal

• Smooth, durable finish

• UV- and moisture-resistant dry film

• Suitable for galvanized steel, aluminium and corrugated metal sheeting

• Also suitable for masonry and drywall

Colour and tinting

Standard colour: White (01). Tint base: White. Tint with universal colourants only. For special colours, contact the retailer.

4. Technical data

Property	Value
Vehicle type	Acrylic
Pigment type	Titanium dioxide / inhibitive pigments
Coverage per litre	100-115 ft²/L (approximately 9.3-10.7 m²/L)
Recommended wet film thickness	75-90 microns
Tack-free time	1 hour
Recoat time	4-6 hours
Full cure	4 days
Drying mechanism	Coalescence
Viscosity	80-100 KU
Weight per litre	1.5 kg/L
Surface temperature at application	10-50°C
Storage temperature	15-45°C
VOC	Maximum 70 g/L, excluding water and exempt solvents
Clean-up	Warm, soapy water

Drying times are stated at 25°C and 50% relative humidity. High humidity and cool temperatures extend drying, recoating and service times. Coverage varies with surface texture and porosity.

Qualification

Meets requirements for SSPC No. 24, as stated in the product information.

5. Coating systems

Substrate	Coating guidance
Properly prepared ferrous metal	Apply Niram Rust_O_Paint directly to the prepared surface.
Galvanized steel and aluminium	Thoroughly clean and prepare the surface; apply one or two finish coats as needed.
Previously red-oxide-primed surfaces	May be coated after suitable surface preparation.
Concrete and glossy surfaces	Prepare as described in Section 6 before coating.

6. Surface preparation

Remove grease, dirt and other surface contamination with an appropriate surface cleaning solution. Remove loose paint, rust and mill scale by hand tool cleaning (SSPC-SP2) or power tool cleaning (SSPC-SP3). Fill holes and cracks and sand smooth. Thoroughly prepare moderately to heavily rusted areas and remove active rust.

Ferrous metal

Remove active rust as described above. Apply directly to properly prepared ferrous metal. Previously coated surfaces with red-oxide primer may also be coated after preparation.

Non-ferrous metal

Galvanized steel may be chemically treated or passivated to prevent white rust during storage and transport. Thoroughly clean galvanized steel and aluminium using an appropriate cleaning solution or solvent wiping in accordance with SSPC-SP1 before coating.

Concrete

Allow new concrete to age for a minimum of 30 days. Prepare new or old unpainted concrete by etching with a muriatic acid solution, following the etching product manufacturer's instructions, then rinse thoroughly with water.

Glossy surfaces

Degloss the surface to create a suitable profile before coating. Thorough sanding is the preferred method.

Old paint removal

Scraping, sanding or removing old paint may release toxic lead dust. Lead exposure can cause serious illness, including brain damage, especially in children. Pregnant women should avoid exposure. Wear a NIOSH-approved respirator to control lead exposure. Clean carefully with a HEPA vacuum and a wet mop.

7. Application

Material preparation

Mix thoroughly before application. A low-speed drill mixer is recommended.

Method	Equipment guidance
Airless spray - preferred	Fluid output pressure at the tip: not less than 2,500 psi.
Air spray - pressure pot	DeVilbiss MBC or JGA gun with 704 or 765 air cap and fluid tip E.

7. Application continued

Application conditions

Apply within the stated surface temperature range of 10-50°C. Do not apply if rain is expected within 12 hours. Avoid application close to the dew point; consult technical assistance for the specified dew-point margin and relative humidity limit.

Equipment care and cleaning

Do not allow material to remain in hoses, guns or spray equipment. Flush all equipment thoroughly with warm, soapy water after use.

8. Packaging and storage

Keep containers closed when not in use. Store at 15-45°C. Protect from freezing. Contact the retailer for available pack sizes and shelf-life information.

9. Limitations and safety instructions

Not for immersion service. Not recommended for wood, plastic or glass. For professional use only. Keep out of reach of children. Protect from freezing.

In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling. Refer to the current Safety Data Sheet for product-specific hazards and additional environmental, health and safety information.

10. General information

Plan the quantity required with regard to surface texture and porosity to support colour uniformity and minimise excess paint. For technical assistance, special colours and current product information, contact the retailer.

Read this technical data sheet together with the current product label and Safety Data Sheet before application.