

DULUX® METALCLAD® RUST PREVENTIVE COATING 218490A, Red Oxide

For exterior ferrous metal
Flat Finish

Technical Data Sheet



Technical Specifications (21°C (70°F))

Solids by Volume:	50% (± 1%)
Solids by Weight:	70% (± 1%)

Volatile Organic Compounds (VOCs)*

According to ASTM D3960-05: < 400 g/L

**When tinted with PPG Formula Pro, even at maximum tint load in any colour, the colourant contributes less than 8 g/L of VOC to the final tinted product.*

Available Colours

218490A (Red Oxide)

Gloss Level	Flat finish
• Gloss @ 60°:	0 to 6%
• Sheen @ 85°:	Not available

Practical Coverage

40 - 48 sq. metres (430 - 520 sq. ft.) per 3.78 litres

Coverage figures do not include loss due to surface irregularities and porosity or material losses due to application method or mixing.

Resin Type

• Polyurethane-alkyd

Viscosity* Ready to use (85 to 100 Krebs Units)

Manufacturing specification, working viscosity may vary

Flammability	Combustible Liquid
Flash Point*	45°C (113°F)

Film Thickness requirements*

• Wet:	78 to 94 µm 3.1 to 3.7 mils
• Dry:	39 to 47 µm 1.5 to 1.8 mils

Drying Time* @ 25°C/77°F - 50% Relative Humidity

Touch dry:	6 hours
To recoat:	16 hours
Prior to withstanding rain:	24 hours
Before cleaning:	30 days

When relative humidity is higher than 50%, double the required time.

Drying times listed may vary depending on temperature, humidity, film build, colour, and air movement.

*Technical Data Source: 218490A

Product Description

Polyurethane-alkyd and silicone based rust preventive coating for metal surfaces only. *Dulux Metalclad* can be applied without primer to retard rust and provide resistance, hiding and adhesion on new or rusted ferrous metal: furniture, doors, windows, fences, roofs, swings, stairs, tools, machinery, ornamental iron, pipes, fire hydrants, etc. **It is intended to be applied as a first coat on bare ferrous metals or as a second coat on itself.**

Advantages

- Rust preventive coating for exterior ferrous metal.
- Self priming on ferrous metal.
- Lead and mercury free.
- Excellent protection against corrosion.
- Excellent moisture resistance.

Intended Uses

- Interior (small surfaces only)/exterior new and maintenance work.
- Residential and Commercial sites.
- Metal surfaces only.

Surfaces

- New or rusted ferrous metal: furniture, doors, windows, fences, roofs, swings, stairs, tools, machinery, ornamental iron, pipes fire-hydrants, etc.

Limitations of Use

- **Interior (small surfaces only).**
- **Not recommended for direct application on aluminum, zinc, and non-rusted galvanized metal. Not recommended on marine equipment, interior of basins or reservoirs, or for interior use on large surface areas.**
- **Do not apply to non-rusted galvanized metal without the application of the appropriate rust preventive coating.**

Certifications

LIMITED WARRANTY: PPG Architectural Coatings Canada, Inc. warrants performance of its products to its intended use if properly applied in accordance with the label directions and the specifications of the technical data sheet. Having no control over the application methods and conditions or the circumstances related to its use, no other warranty, expressed or implied, statutory or otherwise is given. This limited warranty extends only to the original purchaser of the product and is not transferable or assignable. If the product fails to conform to this limited warranty, we will, at your option, furnish replacement product or refund the purchase price. This limited warranty excludes (1) labour or costs of labour for the application or removal of any product and (2) all other direct, indirect, incidental, special or consequential damages.

12/2023



Available at Dulux Paints Stores across Canada and Bétonel-Dulux Stores in Quebec. Before use, be sure to read and follow the instructions and warnings on the label and Safety Data Sheet. See other cautions on last page.

SURFACE PREPARATION

Surface must be clean and dry. Remove all loose, peeling paint, dirt, grease, mildew, and any other surface contaminants. Sand all glossy, rough, and patched surfaces. Remove surface dust.

- Mildew must be removed by washing affected area with a solution of 30% household bleach and 70% water. Rinse well.
- Remove all loose and peeling paint and sand to smooth edges.
- Remove all rust, oil and grease. Wash well with mineral spirits and dry with clean rags.
- Sand all surfaces smooth and lightly sand glossy areas. Vacuum sanding residue.

PRECAUTION: Dry sanding will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. Wear suitable respiratory protective equipment when exposure cannot be avoided by adequate local ventilation. **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. **LEAD IS TOXIC.** Contact a regional Health Canada office for more information.

NEW METAL: Remove grease and oil, wash well with mineral spirits, and let it dry prior to painting. **FERROUS METAL AND RUSTED GALVANIZED METAL:** No primer required. Remove loose rust with a wire brush, a scraper, or other suitable tools. If the surface is severely rusted, first apply a coat of the appropriate rust preventive coating before applying the topcoat.

NON-RUSTED GALVANIZED METAL AND ALUMINUM: Clean with a metal conditioner and rust remover. Rinse well before applying the first coat of the appropriate rust preventive coating. Then, apply the topcoat. **Do not apply to non-rusted galvanized metal without the application of the appropriate rust preventive coating.**

Application

Stir thoroughly. Do not thin. Generously apply one or two coats as required. The application of two paint coats provides better durability and appearance.

Application Conditions

Apply with a high-quality brush, roller, paint pad, or by airless spray equipment. When using more than one container of the same colour, intermix to ensure colour uniformity. Apply only when air, surface, and product temperatures are between 10°C (50°F) and 32°C (90°F). Air and surface temperatures must remain between 10°C (50°F) and 32°C (90°F) for the next 24 hours. Avoid painting in direct sunlight or on hot surfaces. Do not apply late in the day when dew and condensation are likely to form or if rain or snow is expected within 16 hours.

USE ONLY IN A WELL-VENTILATED AREA.

Tools

- Brush: natural bristles
- Roller: lint free – 10 - 15 mm
- Spray (Airless equipment)*: tip size: 0.013 to 0.019 in.
pressure: 2300 – 2700 psi

*Spray recommendations may vary from figures listed depending on equipment manufacturer.

Spray equipment must be handled with due care and in accordance with the manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury.

SYSTEM RECOMMENDATIONS

Two topcoats are recommended on all surfaces for better durability and appearance.

Ferrous Metal and Rusted Galvanized Metal:

- Dulux Metalclad 218480 (2 coats).
- OR
- Dulux Metalclad 218400A series or one coat of Dulux Metalclad Red Oxide Rust Preventing Coating 218490A.
- Dulux Metalclad 218400A series.

Non Ferrous Metal (non-rusted galvanized metal and Aluminum):

Interior (dry environments and small surfaces only)

- Dulux Metalclad 218480 (2 coats).
- OR
- Dulux Metalclad 218400A series or one coat of Dulux Metalclad Red Oxide Rust Preventive Coating 218490A.
- Dulux Metalclad 218400A series.

Exterior

- Dulux Metalclad 218480 (2 coats).
- OR
- 1st coat HPC Multiprime 4360 - one coat.
- Dulux Metalclad 218400A series.

HPC Multiprime 4360 is intended for use only by professional applicators in accordance with the advice given on this sheet, the SDS and the container(s), and should not be used without reference to the SDS.

CLEANER:

Clean tools with mineral spirits immediately after use.

Storage and Transportation

Keep product cool and dry.

Disposal

Consult your municipality about proper disposal procedure of residue in accordance with the laws and respect the environment. Do not pour down a drain or storm sewer.

Safety Measures

CAUTION IRRITANT. DANGER OF COMBUSTION. MAY IRRITATE EYES.

Do not get in eyes. Keep away from flames or sparks. Materials such as rags used with this product may begin to burn by themselves. After use, put rags in water or lay flat to dry, then discard. Keep out of reach of children. Wear protective gloves and eye/face protection: Chemical splash goggles. Use chemical-resistant, impervious gloves. **Prior to use, read and follow product-specific SDS and label information.** **FIRST AID TREATMENT:** Talc, not containing asbestiform fibres; Solvent naphtha (petroleum), medium aliph.; Naphtha (petroleum), hydrotreated heavy; trizinc bis(orthophosphate); diiron trioxide; Diatomaceous earth; Solvent naphtha (petroleum), light aromatic; iron hydroxide oxide yellow; 2-butanone oxime; cobalt bis(2-ethylhexanoate). If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. Sanding and grinding dusts may be harmful if inhaled. Inhalation of high concentrations of vapour may affect the central nervous system. Repeated exposure to high vapour concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. High vapour concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Keep container tightly closed and sealed until ready for use. For workplace use, an SDS is available from your retailer or by calling 1-800-463-7426 (Canada). **EMERGENCY SPILL INFORMATION:** (412) 434-4515 (U.S.), (514) 645-1320 (Canada).

For product information call: 1-866-660-2220
www.dulux.ca



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