

DULUX® METALCLAD® RUST PREVENTIVE COATING 218400 SERIES

Polyurethane-alkyd for exterior ferrous metal
High Gloss Finish

Technical Data Sheet



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

Solids by Volume:	50% (± 1%)
Solids by Weight:	65% (± 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.*

Canadian regulation: < 400 g/L

Available Colours

White 218400, Medium base 218477, and Ultra deep 218497 base.

Pre-mixed colours: Oxford Brown 218404, Marine Blue 218412, Safety Yellow 218413, Forest Green 218414, Safety Red 218419, Safety Orange 218427, Black 218420, Flat Black 218421.

Gloss Level	High Gloss finish
• Gloss @ 60°:	85 – 100%
• Sheen @ 85°:	Not available

Practical Coverage

40 - 48 sq. metres (440 - 520 sq. ft.) per 3.78 litres
11 - 13 sq. metres per litre

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 ± 5 Krebs Units)

Manufacturing specification, working viscosity may vary

Flammability	Combustible Liquid
Flash Point*	42°C (108°F)

Film Thickness requirements*

• Wet:	78 µm 3.1 mils
• Dry:	40 µm 1.6 mils

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

Touch dry:	6 hours
To recoat:	16 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: 218400

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.

Advantages

- Polyurethane-alkyd rust preventive coating for exterior ferrous metal.
- Durable high gloss finish.
- 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

- **Not recommended for:** aluminum, zinc, non-rusted galvanized metal, marine equipment, interior of basins or reservoirs or for interior use on large surface areas.

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.

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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 should be dry, clean, free from dust, grease, loose rust, loose paint or other contaminants. Lightly sand glossy areas. Wash well and degrease. Let dry.

► 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 of dry coatings 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.

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 one coat of *Metalclad* 218490.

NEW METAL: Remove grease and oil, wash well with mineral spirits, and dry with clean rags prior to painting.

Do not apply to non-rusted galvanized metal without a proper primer.

Application

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

Application Conditions

Between 10°C (50°F) and 32°C (90°F). Do not apply on hot surfaces or in direct sunlight. Do not apply if dew, cold temperatures or rain are expected within 16 hours. High humidity or low temperatures extend drying time.

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:

- *Dulux Metalclad* 218400 series or one coat of *Dulux Metalclad* Red Oxide Rust Preventing Coating 218490.
- *Dulux Metalclad* 218400 series.

Non Ferrous Metal:

Interior (dry environments and small surfaces only)

- *Dulux Metalclad* 218400 series or one coat of *Dulux Metalclad* Red Oxide Rust Preventive Coating 218490.
- *Dulux Metalclad* 218400 series.

Exterior

- 1st coat *HPC Multiprime* 4360 - one coat.
- *Dulux Metalclad* 218400 series.

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

CLEANER:

Mineral spirits immediately after use. Before cleaning surfaces, let dry at least 30 days. Abrasive cleaners are not recommended.

Storage and Transportation

Keep product cool and dry.

Disposal

Use an appropriate procedure. Do not empty into drains.

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 eye/face protection or chemical splash goggles. Use chemical-resistant, impervious gloves. 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. **Note: These warnings encompass the product series. Prior to use, read and follow product-specific SDS and label information. FIRST AID TREATMENT:** Contains Stoddard solvent; solvent naphtha, medium aliphatic; petroleum distillates hydrotreated, heavy; solvent naphtha, light aromatic; 1,2,4-trimethylbenzene; titanium dioxide; 2-butanone oxime; cobalt bis(2-ethylhexanoate); 2-(2-methoxyethoxy)ethanol; diiron trioxide; carbon black, chloro copper phthalocyanine; xylene; cobalt neodecanoate; toluene; kaolin. If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. For workplace use, an SDS is available from your retailer or by calling 1-800-463-7426. EMERGENCY SPILL INFORMATION: 514-645-1320.

For product information call: 1-800-387-3663
www.dulux.ca



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