

AUPC00320 Dulux Protective Coatings Metalshield QD Enamel Gloss

Description and Image

Previously known as DULUX METALSHIELD QD Enamel Topcoat
DULUX METALSHIELD® QD Enamel is designed to provide a durable exterior high gloss finish typically for use in equipment and machinery manufacture and refurbishment. Drying times provide good wet edge control with excellent "melt in" and minimal dry spray.

Features and Benefits

- Rapid dry & recoat time
- Single pack product
- High gloss
- Quick turn around time for application and short down time.
- Apply by brush, roller or spray for interior or exterior application
- Hard wearing and attractive appearance with minimal dry spray.

Uses

Ideal as a coating for steel in mild & commercial environments. The preferred coating where a hard wearing, fast dry, easy repair and recoat finish is required. Used to paint machinery and equipment such as cranes, trailers, pumps, compressors and as a general purpose fast dry enamel.

Performance Guide

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| Weather Chalking may occur on exposure. However this won't detract from the coatings resistance properties. | Salt Poor resistance to most salt solutions. |
| Heat Resistance Up to 80°C dry heat. | Water Resists rain and condensation. Not recommended for permanently damp or immersed exposure. |
| Solvent Resists alcohol & mineral turps. Limited resistance to strong solvents. | Abrasion Good abrasion resistance when fully cured. |
| Acid Not recommended where fume splash or spillage may occur. | Alkali Not recommended where fume, splash or spillage may occur. |

Typical Properties

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| Finish Full gloss. |
| Colour Extensive range of factory packed colours including Aluminium and MIO. |
| Components 1 |
| Shelf Life 2 years minimum at 25°C |
| Thinner DULUX Duthin 340 Spray Thinner or DULUX Mineral Turpentine |
| Line/Shade 371 LINE |

Application Methods

 **Air Spray**
 **Airless Spray**
 **Brush**
 **Roller**

Application Conditions

| | Min | Max |
|-------------------------------|---------------------------------|---------------------------------|
| Air Temperature | <input type="text" value="10"/> | <input type="text" value="40"/> |
| Substrate Surface Temperature | <input type="text" value="10"/> | <input type="text" value="40"/> |
| Relative Humidity | <input type="text"/> | <input type="text" value="85"/> |

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|---|--------------------------------------|---|----------------------------------|
| | Solids by Volume | | |
| | <input type="text" value="38"/> | | |
| | Min | Max | Recommended |
| Wet Film Per Coat (microns) | <input type="text" value="80"/> | <input type="text" value="130"/> | <input type="text" value="105"/> |
| Dry Film Per Coat (microns) | <input type="text" value="30"/> | <input type="text" value="50"/> | <input type="text" value="40"/> |
| Recoat Time (min/hours) | <input type="text" value="24hours"/> | <input type="text" value="Indefinite"/> | <input type="text"/> |
| Theoretical Spread Rate (m ² /L) | <input type="text" value="12.7"/> | <input type="text" value="7.6"/> | <input type="text" value="9.5"/> |

Hardener Details

| |
|---|
| <input type="text" value="Typical Spreading Rate at recommended Dry Film Build"/> |
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Surface Preparation

DULUX METALSHIELD® QD Enamel is designed for application to suitably primed surfaces, (typically over DULUX METALSHIELD® primers) or prepared sound existing coatings. Suitable primed substrates include steel, aluminium, zinc coated steel, concrete, fibreglass or MDF. It is recommended that specifiers follow the guidelines for surface preparation from the data sheet for the primer selected. The primer surface must be free from grease, oil, dirt and other loosely adhering materials.

OVERCOATING:

Aged coating should be tested for lifting by a method suitable to the coating thickness, for example 'X' cut or crosshatch methods. If it lifts, remove it. The surface must be free of oil, grease and other contaminants. Hand sand or high pressure water blast at 1,200 - 1,500 p.s.i. to remove loosely adhering chalk and dust prior to overcoating. Apply DULUX METALSHIELD® QD Enamel.

Application Guide

Application Method

Stir contents of each can thoroughly with a broad flat stirrer using a stirring, lifting action or use a power mixer.

BRUSH/ROLLER: Suitable for small areas only. Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 100 ml/litre with DULUX Duthin 340 Spray Thinner to ease application. When brushing and rolling additional coats may be required to attain the specified thickness.

CONVENTIONAL SPRAY: Thin up to 150ml/litre with DULUX Duthin 340 Spray Thinner to aid atomisation. Apply in multiple wet coats overlapping each pass 50%.

TYPICAL SET-UP

De Vilbiss JGA 502 Gun: 704 Air Cap, FF Fluid Tip, FF Needle

Pressure at Pot: 70-100 kPa (10-15 p.s.i.)

Pressure at Gun: 380-410 kPa (55-60 p.s.i.)

AIRLESS SPRAY: Standard airless spray equipment such as Graco, Binks or others using a 28:1 pump ratio with a fluid tip of 13-15 thou (0.33-0.38mm) and an air supply of 550-690 kPa (80-100 p.s.i.). Thinning is not normally required but up to 50 ml/litre of DULUX Duthin 340 Spray Thinner may be added to ease application.

Conventional or airless spray brush or roller

Precautions

Do not apply at temperatures below 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Do not overcoat outside the minimum overcoat interval or wrinkling may occur. Recoat intervals will be longer under cold conditions. If in doubt, test a small inconspicuous area first.

Clean Up

Clean up thinner

Clean all equipment with DULUX Duthin 340 Spray Thinner.

Health and Safety

Storage

STORAGE: Store as required for a flammable liquid Class 3 in a bunded area under cover. Store in well-ventilated area away from sources of heat or ignition. Keep containers closed at all times.

Handling

HANDLING: As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.

Using

USING: Use with good ventilation and avoid inhalation of spray mists and fumes.

Flammability

FLAMMABILITY: This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE.

Welding

WELDING: Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

In case of emergency, please call 1800 220 770.

Transport and Storage

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| Class 3 | UN Number 1263 |
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Disclaimer

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The correct colour or colour match is the responsibility of the applicator. Colours will change over time and Dulux does not guarantee that the same colour newly mixed will match a colour applied earlier which has been subjected to weathering or other change elements. No product colour is guaranteed against colour change.

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WHERE LEAD MAY BE PRESENT: The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate the lead. If lead is present, the work must be done in strict accordance with AS 4361 Parts 1 and 2 and Worksafe Australia guidelines.