

NZDU00536 Dulux Duration® X21 Semi Gloss

Introduction

Approvals
AS/NZS 3750.5

Description and Image

DURATION® X21 is a premium, two-component general purpose epoxy coating that has been designed to be used on primed mild steel, galvanized steel and aluminium. DURATION® X21 is also suitable for use on prepared concrete surfaces, including concrete floors.

Features and Benefits

- VERSATILE GENERAL PURPOSE EPOXY
- SUITABLE FOR USE OVER A WIDE RANGE OF PRIMED METAL SUBSTRATES
- CAN BE USED DIRECTLY ONTO MASONRY SURFACES
- EASE OF APPLICATION – SPRAY, BRUSH, ROLLER
- LOW VOC & LOW ODOUR COMPARED TO EQUIVALENT SOLVENT BORNE SYSTEMS
- FAST RECOAT TIME – 4 HOURS AT 25°C

Uses

DURATION® X21 is designed to be used as part of complete DURATION® water borne protective coatings system for steel that is subject to sheltered or mild (C1-C3) corrosive environments including residential and commercial construction, hospitals, warehouses, schools, shopping centres and factories. DURATION® X21 can also be used directly over Dulux® solvent borne epoxy primers, universal primers and to aged, tightly adhering coatings subject to necessary solvent resistance tests and appropriate surface preparation.

Precautions and Limitations

This is an industrial product designed for use by experienced Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux® Australia. Do not use any product past its pot life. Product past its pot life may still appear fit for use but will develop substantially reduced gloss and may develop brittleness. Freshly mixed material must not be added to material that has been mixed for some time. The rate of cure is dependent upon temperature. Do not apply at temperatures below 10°C, or where the surface temperature is below 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Product should be protected against ponding water for 24 hours after application. After this period ponding water may cause temporary lightening of the colour, which will recover after the surface is dried. When applying this product to broad surfaces, use only one application method to avoid colour variation or streaking.

Performance Guide

Weather Will yellow with time and chalk on exterior exposure. Neither yellowing nor chalking detracts from the protective properties of the coating. Use a weatherable topcoat if required for appearance.	Salt Excellent resistance to neutral and alkali salts.
Heat Resistance Up to 120°C dry heat.	Water Excellent resistance to fresh and salt water but not suitable for immersion.
Solvent Good resistance to splash and spillage of aromatic and aliphatic hydrocarbon solvents and alcohols.	Abrasion Good when fully cured
Acid Suitable for splash and spillage exposure to dilute acids	Alkali Good resistance to splash and spillage of most common alkalis

Typical Properties

Gloss Level
Semi Gloss

Thinner
Potable water

Components
2

Shelf Life
2 Years

Mixing Ratio
Part A : 1; Part B : 1

Pot Life
1 hour (4 litre kit, 25°C)

Clean Up Description
Clean all equipment with clean warm water immediately after use followed by DULUX® EPOXY THINNER (920-08925).

Application Methods



Airless Spray



Brush



Roller

Application Conditions

Solids by Volume

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	Min	Max	Recommended
Wet Film Per Coat (microns)	110	160	135
Dry Film Per Coat (microns)	40	60	50
Recoat Time (min/hours)	240	10080	240
Theoretical Spread Rate (m ² /L)	9.25	6.17	7.4

Typical Property Notes

Drying characteristics at 50 microns dry film thickness

SPREADING RATE with Standard Hardener assuming no losses : 7.4 square metres per litre equals 50 µm dry film thickness.

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

Health and Safety

Using Safety Precautions

Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spraying, users must comply with their respective State Spray Painting Regulations.

Please refer to SDS Link. In case of emergency, please call 0800 220 770.

Transport and Storage	
UN Number	N/A
Dangerous Goods Class	Non Dangerous Goods
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Unless Dulux has provided you with a customised, project-specific specification, this Data Sheet does not represent that any particular product or product system will be suitable for your project.

Any information provided in this Data Sheet is given in good faith and is believed by Dulux to be correct at the time of publication. Products and coating systems can be expected to perform as indicated in this Data Sheet, provided the substrate is in good condition, the coatings are applied by a suitably experienced and skilled applicator, and the preparation, application and maintenance is followed strictly as set out in this Data Sheet, and as recommended on the applicable Safety Data Sheets for the relevant products, available from www.duspecplus.co.nz. Climatic conditions at application time can affect product suitability and performance.

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.

Where any liability of Dulux in respect of this Data Sheet cannot by law be excluded, Dulux's liability is limited, as permitted by law and at Dulux's option, to resupply of the relevant products or services or to reimbursing the cost of those products or services.

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/ NZS 4361 Parts 1 and 2 and Worksafe Australia or New Zealand guidelines.