AUPC00282 Dulux Protective Coatings Weathermax HBR Two Pack Gloss

Description and Image

Weathermax® HBR has been locally developed for high build roller or brush application. It is a high build recoatable polyurethane coating designed to be used over a wide range of suitably primed substrates such as mild steel, galvanised steel, concrete and aluminium.

Features and Benefits

- High builds with brush & roller application
- Can be applied up to 125 microns DTF in a single coat via spray application
- Superior gloss and colour retention
- Excellent resistance to most graffiti media and cleaning agents
- Tintable - available in over 5000 colours
- Accelerator available for use in cooler conditions

Uses

Weathermax® HBR is a high performance coating that exhibits excellent gloss and colour retention during extended service periods in severe industrial and marine environments and in extreme UV exposure. Weathermax® HBR provides an effective barrier against graffiti and resists repeated cleaning by most propriety graffiti removal agents.

Performance Guide

Weather **Excellent gloss and colour retention on exterior exposure.**	Salt **Excellent resistance to splash and spillage of neutral and alkaline salt solutions.**
Heat Resistance **Up to 120°C dry heat**	Water **Excellent resistance to fresh and salt water but not suitable for immersion.**
Solvent **Resists splash and spillage of most hydrocarbon solvents, refined petroleum products and common alcohols.**	Abrasion **Good when fully cured**
Acid **Excellent resistance to splash and spillage of most acids.**	Alkali **Good resistance to splash and spillage of most common alkalis .**

Typical Properties

Finish
80

Components **2**	Flash Point **42°C**
Pot Life **2 hours (4 litre kit, 25°C)**	Shelf Life **12 months**
Mixing Ratio (V/V) **4:1**	Thinner **DuThin 040**
Suitable Substrates **Suitably primed and coated steel, aluminium, MDF, galvanised steel, concrete, compressed fibre cement or fibreglass composites**	Line/Shade **770-00026 White** **770-39141 Golden Yellow** **770-50568 Black** **770-39079 Signal Red** **770-63001 Light Base** **770-63002 Deep Base** **770-63003 Clear Base** **976-84593 Standard Hardener** **976-89935 Accelerator Part C**
Primers **Most Dulux® two pack epoxy primers**	Topcoats **N/A**

Product Code
PC 405

Application Methods

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

Application Conditions

	Min	Max
Air Temperature	10	45
Substrate Surface Temperature	10	45
Relative Humidity	85	

Solids by Volume: 70

	Min	Max	Recommended
Wet Film Per Coat (microns)	110	180	145
Dry Film Per Coat (microns)	75	125	100
Recoat Time (min/hours)	10 Hours	Indefinite	
Theoretical Spread Rate (m²/L)	9.1	5.6	6.9

Hardener Details

Typical spreading rate at recommended dry film build

 # A spreading rate of 0.00sq. meters per litre corresponds to 125 microns dry film thickness assuming no losses. Practical spreading rates will vary depending on such factors as method and condition of application and surface roughness

Hardener Section Footer

 # These figures are given as a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying. To overcoat after the maximum time has elapsed, either with itself or with another product, may require the surface to be abraded in order to ensure adequate adhesion.
*** When used for immersion conditions the maximum overcoat interval is 3 days.**

Typical Systems

Typical System

Title:
Steel - Very high corrosivity (AS2312.1 Cat C5) Exceeds System PUR5

Preparation Guide
Abrasive blast clean AS1627.4 Class 2.5

Coat	Product	Spread Rate (m²/L):	WFT (micron):	DFT (micron)
1st Coat	**Zincanode 402**	**6.4**	**155**	**75**
2nd Coat	**Duremax GPE MIO**	**3.5**	**290**	**200**
3rd Coat	**Weathermax HBR**	**7.0**	**145**	**100**
			Minimum System DFT:	**375**

Notes:
If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

Typical System

Title:
Steel - Very high corrosivity (AS2312.1 Cat C5) System PUR 4

Preparation Guide
Abrasive blast clean AS1627.4 Class 2.5

Coat	Product	Spread Rate (m²/L):	WFT (micron):	DFT (micron)
1st Coat	**Zincanode 402**	**6.4**	**155**	**75**
2nd Coat	**Duremax GPE**	**5.7**	**175**	**125**
3rd Coat	**Weathermax HBR**	**7.0**	**145**	**100**
			Minimum System DFT:	**300**

Notes:
If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

Typical System

Title:
Steel - Low - Medium (AS2312.1 Cat C2-3) System PUR2

Preparation Guide
Abrasive blast clean AS1627.4 Class 2.5

Coat	Product	Spread Rate (m²/L):	WFT (micron):	DFT (micron)
1st Coat	**Duremax GPE Zinc Phosphate**	**5.7**	**175**	**125**
2nd Coat	**Weathermax HBR**	**7.0**	**145**	**100**
			Minimum System DFT:	**225**

Notes:
If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

Typical System

Title:
Steel maintenance

Preparation Guide
Power tool clean AS1627.2 Class 2 minimum

Coat	Product	Spread Rate (m²/L):	WFT (micron):	DFT (micron)
Spot Primer	**Durebild STE - PC237**	**6.7**	**150**	**125**
1st Coat	**Durebild STE - PC237**	**6.7**	**150**	**125**
2nd Coat	**Weathermax HBR**	**7.0**	**145**	**100**
3rd Coat	**Weathermax HBR**	**7.0**	**145**	**100**
			Minimum System DFT:	**450**

Notes:
If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

Typical System

Title:
Galvanised steel

Preparation Guide
Clean, degrease and abrade surface

Coat	Product	Spread Rate (m²/L):	WFT (micron):	DFT (micron)
1st Coat	**Duremax GPE Zinc Phosphate**	**5.7**	**175**	**125**
2nd Coat	**Weathermax HBR**	**7.0**	**145**	**100**
			Minimum System DFT:	**225**

Notes:
If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

Typical System

Title:
Concrete

Preparation Guide
Remove release agents and other surface contaminants

Coat	Product	Spread Rate (m²/L):	WFT (micron):	DFT (micron)
1st Coat	**Durebild STE - PC237**	**6.7**	**150**	**125**
2nd Coat	**Weathermax HBR**	**7.0**	**145**	**100**
3rd Coat	**Weathermax HBR**	**7.0**	**145**	**100**
			Minimum System DFT:	**325**

Notes:
If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

Typical System

Title:
Aluminum & composites

Preparation Guide
Clean, degrease and abrade surface

Coat	Product	Spread Rate (m²/L):	WFT (micron):	DFT (micron)
1st Coat	**Luxepoxy 4 White Primer**	**8.6**	**125**	**50**
2nd Coat	**Weathermax HBR**	**7.0**	**145**	**100**
			Minimum System DFT:	**150**

Notes:
If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

Surface Preparation

Specifiers should follow the surface preparation guidelines from the data sheet for the primer or first coat selected. The surface must be clean, sound and free from moisture, grease, oil, dirt, rust, loose paint, and other contaminants. Degrease surface with Gamlen CA 1 detergent (according to the manufacturer's written instructions and all safety warnings) and then abrade to provide a key for the coating system. If application of the second coat has exceeded the recoat window of the first coat (refer to data sheet) then the entire surface MUST be abraded.

Steel Maintenance: Wash with Gamlen CA 1 according to the manufacturer's written instructions and all safety warnings. (Refer to AS1627.1 Part 2.2). Remove unsound coatings. Feather back edges to remove ridges. Abrade entire surface of tightly adhering remaining coating to provide a suitable key for the new coating system. Remove all red rust by power tool cleaning in accordance with AS/NZ 1627:2 Class 2. Remove all residues. Spot prime bare steel with the first coat nominated in the Typical Systems Guide.

Application Guide

Application Method

Mix each can thoroughly using a power mixer until the contents are uniform. Ensure bases have been tinted to the correct colour before use. Dulux® assumes no responsibility for the application of incorrect colour. Mix the contents of both packs together thoroughly with a power mixer and let stand for 10 minutes. If Weathermax® HBR Accelerator (Part C) is to be used, add under power mixing after the Part A and Part B have been mixed. Use one dose only per 4 Litre kit. Box all containers before use to ensure colour consistency. Remix thoroughly before application.

Brush / Roller

Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 50 ml/litre with Duthin® 040 (965-42166) to aid application. When brushing and rolling additional coats may be required to attain the specified thickness. Note - If a more decorative appearance is required it may be necessary to adjust thinning levels (up to 100 – 150ml/litre), roller type and application technique.

Conventional Spray

Thin up to 100 ml/litre with DUTHIN® 040 (965-42166) to aid atomisation.
Typical Set-up
Graco Delta Gun: 1.8mm (239543)
Pressure at Pot: 65-100 kPa (10-15 p.s.i.)
Pressure at Gun: 385-420 kPa (55-60 p.s.i.)

Airless Spray

Standard airless spray equipment such as a Graco 45:1 Xtreme with a fluid tip of 15-19 thou (0.38-0.48mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Thinning is not normally required but up to 50 ml/litre of Duthin® 040 (965-42166) may be added to aid application.

Precautions

This is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® Representative for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux® Australia. 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. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Ensure that you read and understand the safety precautions on the Material Safety Data Sheets for the two components before using. The recommended thinner MUST be used as some solvents react with the isocyanate hardener seriously degrading the life of the coating. Under no circumstances should water or non-specified thinner be allowed to contaminate the product. To minimize variations in gloss and appearance on a structure or item it is recommended that Weathermax® Accelerator is used in all kits or not at all, ie do not paint half the item with the Accelerator and half without. This may result in a slight difference in appearance and gloss. Note - The Weathermax® HBR Accelerator will substantially speed up handle and dry times when used within the allowable temperature ranges quoted above. However if lower than recommended application and substrate temperatures are experienced during curing it may lead to solvent entrapment and low gloss due to the effects of condensation/dew.

Clean Up

Clean all equipment with Duthin® 040 (965-42166) immediately after use.

Overcoating

Degrease with Gamlen CA 1 according to the data sheet. Test adhesion of existing coating by standard cross hatch adhesion test. If the coating fails, remove it. High-pressure water wash at 8.3 to 10.3 MPa (1,200-1,500 p.s.i.) to remove chalk and dust. Abrade surface to provide a good key for the new coating.

Health and Safety

Safety Precautions

Read Data Sheet, safety data sheet and any precautions on container labels. Safety data sheet is available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au.

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

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 must be worn while handling and using. Always wash hands before smoking, eating, drinking or using the toilet. Gas is evolved when isocyanate in the hardener reacts with water. If a closed container shows signs of internal pressure, cover it completely with a cloth and remove the lid slowly to prevent splashing or violent expulsion of the lid.

Using

Use with good ventilation and avoid inhalation of spray mists and fumes. When spraying, wear a positive-pressure, air-supplied respirator. Users must comply with the provisions of the respective State Spray Painting Regulations at all times.

Flammability

This product is flammable. All sources of ignition must be eliminated in, or near the working area. Do not smoke. Fight fire with foam, CO2 or dry chemical powder. On burning will emit toxic fumes.

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

Packaging **Available in 4 litre and 20 litre packs**	Transportation **1.43 kg/litre (Average of components)**
Class **3**	UN Number **UN 1263**
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Disclaimer

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.com.au. 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 4361 Parts 1 and 2 and Worksafe Australia guidelines.