

Dulux Weathermax HBR Two Pack Gloss

AUDI1156





Specifications	AS/NZS 3750.6 APAS 2911/1 Tested in accordance with AS4548.5 Appendix C & D for use as a concrete anti-carbonation coating system when used with Durebild © STE.
-----------------------	--

Description
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	
<ul style="list-style-type: none"> ▪ HIGH BUILDS WITH BRUSH & ROLLER APPLICATION ▪ CAN BE APPLIED UP TO 125 MICRONS DFT IN A SINGLE COAT VIA SPRAY APPLICATION ▪ SUPERIOR GLOSS AND COLOUR RETENTION 	<ul style="list-style-type: none"> ▪ 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			
Weatherability	Excellent gloss and colour retention on exterior exposure.	Salts	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.
Solvents	Resists splash and spillage of most hydrocarbon solvents, refined petroleum products and common alcohols.	Abrasion	Good when fully cured
Acids	Excellent resistance to splash and spillage of most acids.	Alkalis	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	<ul style="list-style-type: none"> ▪ 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
Meets GBCA VOC Requirement?	N/A		
Application Methods	 Air Spray  Airless Spray  Brush  Roller		
Application Conditions		Min	Max
	Air Temperature	10°C	45°C
	Substrate Surface Temperature	10°C	45°C
	Relative Humidity	85%	
Solids By Volume		70	
		Min	Max
Wet Film Per Coat (microns)	110	180	Recommended 145
Dry Film Per Coat (microns)	75	125	100
Recoat Time (min)	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 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.				

Preparation Guide Abrasive blast clean AS1627.4 Class 2.5

Coat	Product	Spread Rate (m ² /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 STEEL - Low - Medium (AS2312.1 Cat C2-3) System PUR2**Preparation Guide** Abrasive blast clean AS1627.4 Class 2.5

Coat	Product	Spread Rate (m ² /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 STEEL MAINTENANCE**Preparation Guide** Power tool clean AS1627.2 Class 2 minimum

Coat	Product	Spread Rate (m ² /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				325

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

Typical System GALVANISED STEEL**Preparation Guide** Clean, degrease and abrade surface

Coat	Product	Spread Rate (m ² /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 CONCRETE**Preparation Guide** Remove release agents and other surface contaminants

Coat	Product	Spread Rate (m ² /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 ALUMINIUM & COMPOSITES**Preparation Guide** Clean, degrease and abrade surface

Coat	Product	Spread Rate (m ² /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 bonded 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 the case of emergency, please call 1800 033 111	

Transport And Storage			
Packaging	Available in 4 litre and 20 litre packs	Transportation	1.43 kg/litre (Average of components)
Dangerous Goods Part A			
Class	3	UN Number	UN 1263
Dangerous Goods Part B			
Class	3	UN Number	UN 1263

Disclaimer

Dulux, Selleys and Other marks followed by ® are registered trademarks. Marks followed by the symbol of ™ are trademarks.

The data provided within the Duspec system is correct at the time of publication, however it is the responsibility of those using this information to check that it is current prior to specifying or using any of these coating/product systems.

DISCLAIMER: Any advice, recommendation, information, assistance or service provided by any of the divisions of DuluxGroup (Australia) Pty Ltd or its related entities (collectively, DuluxGroup) in relation to goods manufactured by it or their use and application is given in good faith and is believed by DuluxGroup to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by DuluxGroup is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the right entitlements and remedies conferred upon any person or the liabilities imposed upon DuluxGroup by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. Coating/product systems can be expected to perform as indicated on the Duspec Spec Sheet so long as applications and application procedures of the individual products are followed as recommended on the appropriate Product data Sheet. "DuluxGroup" "Dulux" "Selleys" "Berger" "Berger Gold Label" "Hadrian" "Walpamur" "Levene" "Acratex" and Other marks followed by ® are registered trademarks of DuluxGroup (Australia) Pty Ltd ABN 67 000 049 427. Marks followed by the symbol ™ are trademarks.

Please note that this document is only valid for 60 days from the date of issue.

DuluxGroup (Australia) Pty Ltd 1956 Dandenong Road, Clayton, Victoria 3168 AU ABN 67 000 049 427