

# **WEATHERMAX<sup>®</sup> HBR**

## High Build Recoatable Gloss Polyurethane

**PC 405** 

#### **FEATURES**

- **EXCELLENT HIGH BUILD BRUSH & ROLLER APPLICATION**
- SUPERIOR GLOSS & COLOUR RETENTION
- CAN BE APPLIED UP TO 125 MICRONS DFT IN A SINGLE COAT VIA SPRAY APPLICATION
- GOOD CHEMICAL & ABRASION RESISTANCE
- TINTABLE AVAILABLE IN OVER 5000 COLOURS
- ACCELERATOR AVAILABLE FOR USE IN COOLER CONDITIONS
- AVAILABLE IN MICACEOUS IRON OXIDE FINISH

#### **USES**

**ACIDS** 

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.

WEATHERMAX® HBR is a high performance coating that exhibits excellent gloss and colour retention during extended service periods in severe industrial and marine environments.

Tested in accordance with AS4548.5 Appendix C & D for use as a concrete anti-carbonation coating system when used with Durebild ® STE.

SPECIFICATIONS	AS/NZS 3750.6		
RESISTANCE GUI	DE		
HEAT RESISTANCE	Up to 120°C dry heat.	ALKALIS	Good resistance to splash and spillage of most common alkalis. Aluminium
WEATHERABILITY	Excellent gloss and colour retention on exterior exposure.		containing colours are not recommended for alkaline conditions.
SOLVENTS	Resists splash and spillage of most hydrocarbon solvents, refined petroleum products and most common	SALTS	Unaffected by splash and spillage of neutral and alkaline salt solutions.
	alcohols.	WATER	Excellent resistance to fresh and salt water but not suitable for immersion.

Preferred coating for splash and **ABRASION** spillage of most acids. Aluminium Good when fully cured. containing colours are not

#### TYPICAL PROPERTIES AND APPLICATION DATA

**CLASSIFICATION APPLICATION CONDITIONS** Acrylic polyurethane coating FINISH Gloss

**COLOUR** White, LF Golden Yellow, LF Signal Red, Black, MIO Mid Grey, a full range

of tinted colours and MTO factory made colours.

recommended for acidic conditions.

Two (Three, when using Accelerator) **COMPONENTS** 

SOLIDS BY VOLUME **REFER TO PAGE 2 VOC LEVEL REFER TO PAGE 2 FLASH POINT** 16°C **POT LIFE REFER TO PAGE 2** 

MIXING RATIO (V/V) Part A:4 Part B:1

**THINNER** 965-42166 DUTHIN® 040

PRODUCT CODE 770-00026 White 770-39141 LF Golden Yellow

976-89935

770-50568 Black 770-39079 LF Signal Red 770-63001 Light Base Deep Base 770-63002 770-63003 Clear Base 770-63006 MIO Mid Grey 976-84593 Standard Hardener

Accelerator Part C

**REFER TO PAGE 2** 

Min Max Recom. Wet film per coat (microns) **REFER TO PAGE 2** Dry film per coat (microns)

**SUITABLE SUBSTRATES** Suitably primed steel, aluminium,

zinc coated steel, concrete, polyester composite or MDF.

**APPLICATION METHODS** Brush, roller, conventional, airless

spray or air assisted spray.

# WEATHERMAX® HBR

Standard Ha	ardener								
COATING THICK	NESS				APPLICAT	TION CONDITIO	NS		
		Min	Max	Recom.				Min	Max
Wet film per coat (microns) 11		110	180	145	Air Temperature			10°C	45°C
Dry film per coat (n	nicrons)	75	125	100		Substrate Surfa Relative Humid	ace Temperature ity	10°C	45°C 85%
SOLIDS BY VOLU	70% (Wh <280 g/L	,			POT LIFE		2 Hours (4L, 25°	C)	
Drying characteris	stics at 100 micro	ons dry fil	m thickn	ess			O	vercoat	
Temperature	Humidity	To	ouch	Har	ndle	Full Cure	Min	Ma	ax
25° C	50%	3 H	lours	10 ⊢	lours	7 Days	10 Hours	Inde	finite
15° C	50%	10	Hours	25 H	lours	7 Days	25 Hours	Inde	finite
TYPICAL SPREAD DRY FILM BUILD	DING RATE AT R	ECOMME	NDED		microns dr Practical s	y film thickness a preading rates w	etres per litre corres assuming no losses ill vary depending o pplication and surfa	n such facto	rs as

COATING THICK	IESS				APPLICAT	ION CONDITION	NS		
		Min	Max	Recom.				Min	Max
Wet film per coat (microns)		110	185	150	Air Temperature		Э	5°C	45°C
Dry film per coat (microns)		75	125	100		Substrate Surfa Relative Humid	ce Temperature ity	5°C	45°C 85%
SOLIDS BY VOLU	<b>ME</b> 68% (White <300 g/L (	,			POT LIFE		2 Hours (4L, 25°C)		
Drying characteris	stics at 100 micro	ns dry filı	m thickn	ess			Over	coat	
Drying characteris Temperature	stics at 100 micro Humidity	-	m thicknow		ndle	Full Cure	Over Min	coat Ma	ax
		То		Har	n <b>dle</b> ours	Full Cure 7 Days			
Temperature	Humidity	<b>To</b>	uch	<b>Har</b> 5 ho			Min	Ma	finite

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

### **TYPICAL SYSTEMS**

(The typical systems are offered as a guide only and are not to be used as a specification. It is recommended that the specific needs of a project be discussed with a Dulux Protective Coatings Consultant.)

SURFACE	PREPARATION GUIDE		SYSTEM	DRY FILM THICKNESS
STEEL New	Abrasive blast AS1627.4 Class 2.5	1st Coat 2nd Coat	DUREPON® P14 WEATHERMAX® HBR	75 Microns 100 Microns
Construction		1st Coat 2nd Coat 3rd Coat	ZINCANODE® 402 DUREMAX® GPE WEATHERMAX® HBR	75 Microns 100 Microns 100 Microns
STEEL Maintenance	Hand tool clean AS1627.7 Class 2 Power tool clean AS1627.2 Class 2	1st Coat 2nd Coat	DUREBILD® STE WEATHERMAX® HBR	125 Microns 100 Microns
CONCRETE	Clean surface to remove contaminants. Diamond grind, track or light-shot blast. Remove dust.	1st Coat 2nd Coat	LUXEPOXY® 4 White Primer WEATHERMAX® HBR	50 Microns 100 Microns
GALVANISED	Clean, degrease and abrade surface	1st Coat 2nd Coat	DUREMAX® GPE ZP WEATHERMAX® HBR	150 Microns 100 Microns

WEATHERMAX	<sup>®</sup> HBR
SURFACE PREPARATION	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.
APPLICATION	Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Ensure bases have been tinted to the correct colour before use – DULUX ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF AN INCORRECT COLOUR. Mix the contents of both packs together thoroughly using a power mixer and allow to stand for 10 minutes. If Weathermax® HBR Accelerator (Part C) is to be used it should be added under power mixing after the Part A and Part B have been combined. Use one dose only per 4 Litre kit. Box all containers before use to ensure colour consistency. Remix thoroughly before using.
BRUSH/ROLLER	Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 50 ml/litre with DUTHIN $^{\circ}$ 040 (965-42166) to ease application. When brushing and rolling additional coats may be required to attain the specified thickness. Note - If a highly 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 ease 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 express 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-recommended 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 uniformly or not at all, ie do not do half with the Accelerator and half without it. 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. Coatings containing micaceous iron oxide (MIO) are prone to marring but this will not affect the protective properties. With MIO coatings colour variations will occur due to different application techniques.
CLEAN UP	Clean all equipment with DUTHIN® 040 (965-42166) immediately after use.
OVERCOATING	Aged coating should be tested for lifting by a method appropriate for the coating thickness, for example 'X' cut or cross-hatch methods. If it lifts, remove it. The surface must be free of oil, grease and other contaminants. High-pressure water wash at 8.3 to 10.3 MPa (1,200 - 1,500 p.s.i.) to remove loosely adhering chalk and dust. Abrasion may be required depending on surface condition.
SAFETY PRECAUTIONS STORAGE	Read Data Sheet, Material Safety Data Sheet and any precautionary labels on containers.  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.

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. 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** 

**HANDLING** 

Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear a positive-pressure, air-supplied respirator. When spray painting, users should comply

with the provisions of the respective State Spray Painting Regulations.

This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO

WELDING

**FLAMMABILITY** 

NOT SMOKE. Fight fire with foam, CO<sub>2</sub> or dry chemical powder. On burning will emit toxic fumes. Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding

MATERIAL SAFETY DATA SHEET is available from Customer Service (132377) or www.duluxprotectivecoatings.com.au

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PACKAGING Available in 4 litre and 20 litre packs TRANSPORTATION WEIGHT 1.43 kg/litre (Average of components) DANGEROUS GOODS Part A: Class 3 UN 1263

Part B: Class 3 UN 1263 Part C: Class 3 UN 1263

Any advice, recommendation, information, assistance or service provided by DuLUX Australia in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Dulux 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 Dulux by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. Products can be expected to perform as indicated in this sheet so long as application and application procedures are as recommended. Specific advice should be sought from Dulux for application in coastal areas and for large projects to ensure proper performance.

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