

WEATHERMAX® HBR

High Build Recoatable Polyurethane

PC 405

- **FEATURES** EXCELLENT BRUSH & ROLLER APPLICATION
 - CAN BE SPRAY APPLIED UP TO 125 MICRONS DFT IN A SINGLE COAT
 - 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 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 and in extreme UV exposure. WEATHERMAX® HBR provides an effective barrier against graffiti and resists repeated cleaning by most propriety graffiti removal agents.

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.

RESISTANCE GUIDE WEATHERABILITY Excellent gloss and colour retention on **SOLVENTS** Resists splash and spillage of most hydrocarbon exterior exposure solvents. refined petroleum products and common alcohols HEAT RESISTANCE Up to 120°C dry heat **WATER** Excellent resistance to fresh and salt water but not suitable for immersion SALTS | Excellent resistance to splash and spillage of **ALKALIS** Good resistance to splash and spillage neutral and alkaline salt solutions of most common alkalis **ABRASION** Excellent resistance to splash and spillage of Good when fully cured most acids

TYPICAL PROPERTIES AND APPLICATION DATA (STANDARD HARDENER) CLASSIFICATION | Acrylic polyurethane coating **APPLICATION CONDITIONS** FINISH Gloss Min Max COLOUR White, Golden Yellow, Signal Red, Black, a Air Temp. 10°C 45°C full range of tinted colours and MTO factory Substrate Temp. 10°C 45°C made colours. Also available in MIO colours **Relative Humidity** 85% (see separate data sheet) **Concrete Moisture** <10% COMPONENTS | Two (Three, when using Accelerator) VOLUME SOLIDS 70% (White) **COATING THICKNESS (MICRONS)** VOC LEVEL <280 g/L (White) Min Max Recommended Wet film per coat (µm) 180 FLASH POINT 42°C 110 145 POT LIFE 2 Hours (4 Litre kit, 25°C) Dry film per coat (µm) 75 125 100 MIXING RATIO V/V Part A: 4 THINNER 965-42166 DUTHIN® 040 SUITABLE | Suitably primed steel, aluminium, zinc SUBSTRATES coated steel, CFC sheet, concrete and polyester composites PRODUCT CODE 770-00026 White

| | ******** | | |
|-----------|---------------|----------|------------------------------|
| 770-39141 | Golden Yellow | PRIMERS | Most Dulux® two pack primers |
| 770-50568 | Black | | разы |
| 770-39079 | Signal Red | | |
| 770 00004 | Light Dage | TOROGATO | Martin and Parallala |

Light Base 770-63001 TOPCOATS | Not applicable 770-63002 Deep Base 770-63003 Clear Base APPLICATION Brush, roller, conventional, airless 976-84593 Standard Hardener spray or air assisted spray

DRYING CHARACTERISTICS AT 100 µm DRY FILM THICKNESS* (STANDARD HARDENER)

OVERCOAT

| Temperature | Humidity | Touch | Handle | Full Cure | Min | Max |
|-------------|----------|----------|----------|-----------|----------|----------|
| 15° C | 50% | 10 Hours | 25 Hours | 7 Days | 25 Hours | Extended |
| 25° C | 50% | 3 Hours | 10 Hours | 7 Days | 10 Hours | Extended |

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

SPREADING RATE with Standard Hardener

assuming no losses

976-89935

Accelerator Part C

7.0 square metres per litre equals 100 µm dry film thickness

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

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STANDARD HARDENER WITH ACCELERATOR (PART C)

MIXING RATIO PART C: 1 DOSE PER 4 LITRE KIT

COATING THICKNESS (MICRONS)

APPLICATION CONDITIONS

| | Min | Max | Recommended | | Min | Max |
|------------------------|--------------|--------------|-------------|-------------------------------|-----|------|
| Wet film per coat (µm) | 110 | 180 | 150 | Air Temperature | 5°C | 45°C |
| Dry film per coat (µm) | 75 | 125 | 100 | Substrate Surface Temperature | 5°C | 45°C |
| | | | | Relative Humidity | | 85% |
| SOLIDS BY VOLUME | 68% (White) |) | | Concrete Moisture Content | | <10% |
| VOC LEVEL | <300 g/L (W | 'hite) | | ' | | |
| POT LIFE | 2 Hours (4 L | itre kit, 25 | °C) | | | |

DRYING CHARACTERISTICS AT 100 µm DRY FILM THICKNESS*

| | | | | | OVERCOAT | | | |
|--------|----------|---------|----------|-----------|----------|----------|---|--|
| rature | Humidity | Touch | Handle | Full Cure | Min | Max | | |
| С | 50% | 7 Hours | 18 Hours | 7 Days | 18 Hours | Extended | _ | |
| С | 50% | 2 Hours | 5 Hours | 7 Days | 5 Hours | Extended | | |

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

SPREADING RATE

with Accelerator assuming no losses

Temper 10°

6.8 square metres per litre equals 100 µm dry film thickness

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

TYPICAL SYSTEMS

This is a guide only and not to be used as a specification. Your specific project needs must be discussed with a Dulux Protective Coatings Consultant.

| SURFACE | ENVIRONMENT | PREPARATION GUIDE | SYSTEM | | DFT (µm) |
|------------------------|---|--|--|---|--------------------------------------|
| STEEL - NEW | Very high corrosivity (AS2312.1 Cat C5) Exceeds System PUR5 | Abrasive blast clean AS1627.4 Class 2.5 | 1 st Coat 2 nd Coat 3 rd Coat | Zincanode [®] 402 Duremax [®] GPE MIO Weathermax [®] HBR | 75 μm 200 μm 100 μm |
| STEEL - NEW | Very high corrosivity (AS2312.1 Cat C5) Exceeds System PUR4 | Abrasive blast clean AS1627.4 Class 2.5 | 1 st Coat 2 nd Coat 3 rd Coat | Zincanode [®] 402 Duremax [®] GPE Weathermax [®] HBR | 75 μm 125 μm 100 μm |
| STEEL - NEW | Low – medium corrosivity (AS2312.1 Cat C2-3) System PUR2 | Abrasive blast clean AS1627.4 Class 2.5 | 1 st Coat 2 nd Coat | Duremax® GPE ZP Weathermax® HBR | 125 μm 100 μm |
| STEEL – MAINTENANCE | Exterior/Interior | Power tool clean AS1627.2 Class 2 minimum | Spot prime 1 st Coat 2 nd Coat 3 rd Coat | Durebild® STE Durebild® STE Weathermax® HBR Weathermax® HBR | 125 μm 125 μm 100 μm 100 μm |
| GALVANISED STEEL | Mild - Moderate (AS2312.1 Cat C2-3) System PUR2 | Clean, degrease and abrade surface | 1 st Coat 2 nd Coat | Duremax® GPE ZP Weathermax® HBR | 125 μm 100 μm |
| CONCRETE | Exterior/Interior | Remove release agents and other surface contaminants | 1 st Coat 2 nd Coat 3 rd Coat | Durebild [®] STE Weathermax [®] HBR Weathermax [®] HBR | 125 μm 100 μm 100 μm |
| ALUMINIUM | Exterior/Interior | Clean, degrease and abrade surface | 1 st Coat 2 nd Coat | Luxepoxy® 4 White Primer Weathermax® HBR | 50 μm 100 μm |

NOTE: 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.

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APPLICATION 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

Thin up to 100 ml/litre with DUTHIN® 040 (965-42166) to aid atomisation.

Typical Set-up Graco AirPro: 1.8mm (239543)

65-100 kPa (10-15 p.s.i.) Pressure at Triton 308: Pressure at Gun: 385-420 kPa (55-60 p.s.i.)

AIRLESS SPRAY

Standard airless spray equipment such as a Graco Xtreme 45:1 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® 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. 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.

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, airsupplied 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.

COMPANY INFORMATION PACKAGING, TRANSPORT AND STORAGE Dulux Protective Coatings a division of PACKAGING Available in 4 litre and 20 litre packs TRANSPORTATION WEIGHT 1.43 kg/litre (Average of components) DuluxGroup (New Zealand) Ptv Ltd DuluxGroup (Australia) Ptv Ltd Part A: Class 3 UN 1263 1956 Dandenong Road, Clayton 3168 150 Hutt Park Road, Lower Hutt, NZ DANGEROUS GOODS Part B: Class 3 UN 1263 Part C: Class 3 UN 1263 A.B.N. 67 000 049 427 A.B.N. 55 133 404 118

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