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 exterior exposure

HEAT RESISTANCE
Up to 120°C dry heat

SALTS
Excellent resistance to splash and spillage of neutral and alkaline salt solutions

ACIDS
Excellent resistance to splash and spillage of most acids

SOLVENTS
Resists splash and spillage of most hydrocarbon solvents, refined petroleum products and common alcohols

WATER
Excellent resistance to fresh and salt water but not suitable for immersion

ALKALIS
Good resistance to splash and spillage of most common alkalis

ABRASION
Good when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA (STANDARD HARDENER)

CLASSIFICATION
Acrylic polyurethane coating

FINISH
Gloss

COLOUR
White, Golden Yellow, Signal Red, Black, Cherry Red, a full range of tinted colours and MTO factory made colours. Also available in MIO colours (see separate data sheet)

COMPONENTS
Two (Three, when using Accelerator)

VOLUME SOLIDS
70% (White)

VOC LEVEL
<280 g/L (White)

FLASH POINT
42°C

POT LIFE
2 Hours (4 Litre kit, 25°C)

APPLICATION CONDITIONS

Air Temp. 10°C 45°C
Substrate Temp. 10°C 45°C
Relative Humidity 85%
Concrete Moisture <10%

COATING THICKNESS (MICRONS)

Min Max Recommended
Wet film per coat (μm) 110 180 145
Dry film per coat (μm) 75 125 100

SUITABLE SUBSTRATES
Suitably primed steel, aluminium, zinc coated steel, CFR sheet, concrete and polyester composites

PRIMERS
Most Dulux® two pack primers

TOPCOATS
Not applicable

APPLICATION METHODS
Brush, roller, conventional, airless spray or air assisted spray

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

Temperature Temperature Temperature Temperature Temperature Temperature
Humidity 50% 50% 50% 50% 50% 50%
Touch 10 Hours 10 Hours 10 Hours 10 Hours 10 Hours 10 Hours
Full Cure 7 Days 7 Days 7 Days 7 Days 7 Days 7 Days
Max Extended Extended Extended Extended Extended 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
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.
WEATHERMAX® HBR
STANDARD HARDENER WITH ACCELERATOR (PART C)

MIXING RATIO

PART C: 1 DOSE PER 4 LITRE KIT

COATING THICKNESS (MICRONS)

<table>
<thead>
<tr>
<th>Wet film per coat (μm)</th>
<th>Min</th>
<th>Max</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td></td>
<td></td>
<td>150</td>
</tr>
</tbody>
</table>

APPLICATION CONDITIONS

<table>
<thead>
<tr>
<th>Substrate Surface Temperature</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>5°C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concrete Moisture Content</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;10%</td>
<td></td>
</tr>
</tbody>
</table>

SOLIDS BY VOLUME

68% (White)

VOC LEVEL

<300 g/L (White)

POT LIFE

2 Hours (4 Litre kit, 25°C)

DRIYING CHARACTERISTICS AT 100 μm DRY FILM THICKNESS*

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Humidity</th>
<th>Touch</th>
<th>Handle</th>
<th>Full Cure</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>10° C</td>
<td>50%</td>
<td>7 Hours</td>
<td>18 Hours</td>
<td>7 Days</td>
<td>18 Hours</td>
<td>Extended</td>
</tr>
<tr>
<td>25° C</td>
<td>50%</td>
<td>2 Hours</td>
<td>5 Hours</td>
<td>7 Days</td>
<td>5 Hours</td>
<td>Extended</td>
</tr>
</tbody>
</table>

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

SPREADING RATE

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.

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

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. 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.
WEATHERMAX® HBR

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

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.

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

PACKAGING, TRANSPORT AND STORAGE

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