DURETHANE™
Clear Polyester Urethane
PC 410

FEATURES
• OUTSTANDING CHEMICAL RESISTANCE
• RESISTS MOISTURE, GREASE, DETERGENTS AND CHEMICALS
• EXCELLENT UV RESISTANCE
• NON YELLOWING
• EXCELLENT ADHESION AND ABRASION RESISTANCE

USES
DURETHANE™ is a non-yellowing clear polyester urethane finish available in two gloss levels - high gloss and low sheen.

DURETHANE™ has outstanding chemical and abrasion resistance and exterior durability. DURETHANE™ Clear Low Sheen may be used over gloss polyurethanes to impart an elegant low sheen finish in areas of high demand such as retail complexes, restaurants and many other commercial projects. DURETHANE™ can be used on exterior areas such as curtain walls, architectural features, canopies and facades. Ideal topcoat for use in anti-graffiti systems.

SPECIFICATIONS

RESISTANCE GUIDE

<table>
<thead>
<tr>
<th>WEATHERABILITY</th>
<th>Excellent on exterior exposure</th>
<th>SOLVENTS</th>
<th>Excellent resistance to splash and spillage of common alcohols, aliphatic and aromatic hydrocarbons, esters and ketones</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAT RESISTANCE</td>
<td>Up to 105°C dry heat</td>
<td>WATER</td>
<td>Excellent resistance to fresh and salt water but not suitable for immersion</td>
</tr>
<tr>
<td>SALTS</td>
<td>Excellent resistance to neutral and alkali salts</td>
<td>ALKALIS</td>
<td>Excellent resistance to splash and spillage of most common alkalis</td>
</tr>
<tr>
<td>ACIDS</td>
<td>Good resistance to splash and spillage of mild acids</td>
<td>ABRASION</td>
<td>Excellent when fully cured</td>
</tr>
</tbody>
</table>

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION
Two pack polyester urethane

FINISH
High Gloss and Low Sheen

COLOUR
Clear Gloss, Clear Low Sheen

COMPONENTS
Two

VOLUME SOLIDS
49%

VOC LEVEL
<490 g/L

FLASH POINT
15°C

POT LIFE
6 hours (5 litre kit, 25°C)

MIXING RATIO V/V
Part A : 2 Part B : 1

THINNER – BRUSH
965-08410 Dulux® Duthin® 540

THINNER – SPRAY
965-63023 Dulux® Urethane Thinner

PRODUCT CODE
425-30900 Clear Gloss
425-82960 Clear Low Sheen
976-50357 Hardener

APPLICATION CONDITIONS
Min Max
Air Temp. 5°C 45°C
Substrate Temp. 5°C 45°C
Relative Humidity 85%<10%
Concrete Moisture

COATING THICKNESS (MICRONS)
Min Max Recommended
Wet film per coat (μm) 61 102 82
Dry film per coat (μm) 30 50 40

SUITABLE SUBSTRATES
Concrete and polyurethane finishes. Refer to your Dulux® Representative for specific substrates.

PRIMERS
Not applicable.

TOPCOATS
Not applicable

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

DRYING CHARACTERISTICS AT 40 μm DRY FILM THICKNESS*

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Humidity</th>
<th>Touch</th>
<th>Handle</th>
<th>Full Cure</th>
<th>OVERCOAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°C</td>
<td>50%</td>
<td>2 Hours</td>
<td>16 Hours</td>
<td>7 Days</td>
<td>16 Hours</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.

1If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

SPREADING RATE
12.2 square metres per litre equals 40 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) Exceeds System PUR5</td>
<td>Abrasive blast clean AS1627.4 Class 2.5</td>
<td>1st Coat Zincanode® 402</td>
<td>75 µm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat Duremax® GPE MIO</td>
<td>200 µm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3rd Coat Quantum® FX</td>
<td>55 µm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4th Coat Durethane™ Low Sheen</td>
<td>40 µm</td>
</tr>
<tr>
<td>CONCRETE</td>
<td>Exterior/Interior</td>
<td>Remove release agents and other surface contaminants.</td>
<td>1st Coat Durethane™ Gloss</td>
<td>40 µm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat Durethane™ Gloss</td>
<td>40 µm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3rd Coat Durethane™ Gloss</td>
<td>40 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 first coat selected. The surface must be sound and free from 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. Surface must be clean and dry before application.

APPLICATION

Mix each can thoroughly using a power mixer until the contents are uniform. Mix the contents of both packs together thoroughly with a power mixer and let stand for 10 minutes. Remix thoroughly before application.

BRUSH/ROLLER

Roller application is not recommended. Apply even coats by brush of the mixed material to the prepared surface. Thin if necessary with up to 60 ml/litre with Dulux® Duthin® 540 (965-08410) to ease application. When brushing additional coats may be required to attain the specified thickness.

CONVENTIONAL SPRAY

Thin up to 200ml/litre with Dulux® Urethane Thinner (965-63023) to aid atomisation. Apply in multiple wet coats overlapping each pass 50%.

AIRLESS SPRAY

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 5°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 Safety Data Sheets for the two components before use. The recommended thinner MUST be used as some solvents adversely react with the isocyanate hardener. Under no circumstances allow water or non-specified thinner to contaminate the product.

CLEAN UP

Clean all equipment with Dulux® Urethane Thinner (965-63023) 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. Ablative 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. 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.

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

Dulux Protective Coatings a division of DuluxGroup (Australia) Pty Ltd 1956 Dandenong Road, Clayton 3168 A.B.N. 67 000 049 427

DuluxGroup (New Zealand) Pty Ltd 150 Hunt Park Road, Lower Hutt, NZ A.B.N. 55 133 404 118

PACKAGING INFO

PACKAGING

Available in 5 litre packs

PACKAGING TRANSPORT AND STORAGE

TRANSPORTATION WEIGHT

1.05 kg/litre (Average of components)

DANGEROUS GOODS

Part A: Class 3 UN 1263

Part B: Class 3 UN 1263

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