DUREMAX® GFX
High Performance Surface Tolerant Glass Flake Epoxy

FEATURES
- HIGH GLASS FLAKE CONTENT - EXCELLENT BARRIER FOR IMMERSION OR SPLASH ZONE
- SUPERIOR RESIN TECHNOLOGY FOR SURFACE WETTING AND CORROSION RESISTANCE
- HIGH PERFORMANCE MAINTENANCE COATING FOR NEW OR EXISTING STEEL
- SELF PRIMING FINISH – HIGH SOLIDS AND HIGH BUILD FORMULATION
- GOOD ABRASION AND CHEMICAL RESISTANCE

USES
DUREMAX® GFX is a high solids, high build glass flake reinforced epoxy developed to deliver long term corrosion resistance. Ideally suited to protecting new steelwork from atmospheric and marine corrosion including coastal and off-shore structures, above and below the water-line.

The adhesion strength of DUREMAX® GFX allows it to be used as a high performance maintenance coating over hand, power tool or high-pressure water cleaned surface. DUREMAX® GFX can be topcoated with a wide range of coating types.

SPECIFICATIONS
AS 3750.1-1994 “P Congress for steel structures - Epoxy mastic (two-pack) - For rusted steel”
AS 4352-2005 “Tests for Coating Resistance to Cathodic Disbondment”. Group A classification (When applied in two coats at 250 μm DFT per coat directly applied to abrasive blast cleaned steel - AS1627.4 Class 3)
AS/NZ 4020:2005 - suitable for use with potable water when using untinted Mid Grey cured with Standard Hardener or Cold Cure Hardener. Refer to your Dulux Protective Coatings Consultant for details.

RESISTANCE GUIDE
WEATHERABILITY
Will yellow with time and chalk on exterior exposure. Neither yellowing nor chalking detracts from the protective properties of the coating. Use a weatherable topcoat if required for appearance.

HEAT RESISTANCE
Up to 120°C dry heat

SALTS
Excellent resistance to neutral and alkaline salts

ACIDS
Suitable for splash and spillage of mild acids

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

WATER
Excellent resistance to immersion in fresh and salt water

ALKALIS
Good resistance to splash and spillage of strong alkalis

ABRASION
Good when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA (STANDARD HARDENER)
CLASSIFICATION
Two Pack Glass Flake Reinforced Epoxy

FINISH
Semi Gloss

COLOUR
Mid Grey and Black

APPLICATION CONDITIONS

<table>
<thead>
<tr>
<th>Classification</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Conditions</td>
<td>10°C</td>
<td>45°C</td>
</tr>
<tr>
<td>Temperature</td>
<td>10°C</td>
<td>45°C</td>
</tr>
<tr>
<td>Substrate Temp.</td>
<td>10°C</td>
<td>45°C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>85%</td>
<td></td>
</tr>
<tr>
<td>Concrete Moisture</td>
<td>&lt;10%</td>
<td></td>
</tr>
</tbody>
</table>

COATING THICKNESS (MICRONS)

<table>
<thead>
<tr>
<th>Component</th>
<th>Min</th>
<th>Max</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Pack Glass Flake Reinforced Epoxy</td>
<td>240</td>
<td>600</td>
<td>300</td>
</tr>
<tr>
<td>Semi Gloss</td>
<td>200</td>
<td>500</td>
<td>250</td>
</tr>
</tbody>
</table>

PRODUCT CODE
775-H0095 Mid Grey
775-H0094 Black
976-H0096 Standard Hardener
976-H0126 Cold Cure Hardener

APPLICATION METHODS
SUITABLE SUBSTRATES
Prepared rusty steel, aged tightly adhering coatings, prepared concrete Aluminium and galvanised steel

PRIMERS
Most Dulux® two pack primers

CONVENTIONAL, AIRLESS, OR AIR ASSISTED SPRAY

DRYING CHARACTERISTICS AT 250 μm DRY FILM THICKNESS* (STANDARD HARDENER)

<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>10°C</td>
<td>50%</td>
<td>14 Hours</td>
<td>36 Hours</td>
<td>7 Days</td>
<td>36 Hours</td>
</tr>
<tr>
<td>15°C</td>
<td>50%</td>
<td>10 Hours</td>
<td>24 Hours</td>
<td>7 Days</td>
<td>24 Hours</td>
</tr>
<tr>
<td>25°C</td>
<td>50%</td>
<td>SELF PRIMED</td>
<td>14 Hours</td>
<td>7 Days</td>
<td>14 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
with Standard Hardener assuming no losses
3.4 square metres per litre equals 250 μm dry film thickness

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.
DUREMAX® GFX
COLD CURE HARDENER

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></td>
<td>240</td>
<td>600</td>
<td>300</td>
</tr>
<tr>
<td>Dry film per coat (μm)</td>
<td>200</td>
<td>500</td>
<td>250</td>
</tr>
</tbody>
</table>

APPLICATION CONDITIONS

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Temperature</td>
<td>5°C</td>
<td>45°C</td>
</tr>
<tr>
<td>Substrate Surface Temp</td>
<td>5°C</td>
<td>45°C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>85%</td>
<td></td>
</tr>
<tr>
<td>Concrete Moisture Content</td>
<td>&lt;10%</td>
<td></td>
</tr>
</tbody>
</table>

SOLIDS BY VOLUME
84% (Black)

VOC LEVEL
<190 g/L (Black)

FLASH POINT
>23°C

POT LIFE
60 minutes (4 litre kit, 25°C)

DURING CHARACTERISTICS AT 250 μm DRY FILM THICKNESS* (COLD CURE HARDENER)

<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>5°C</td>
<td>50%</td>
<td>14 Hours</td>
<td>28 Hours</td>
<td>7 Days</td>
<td>28 Hours</td>
<td>4 Weeks</td>
</tr>
<tr>
<td>10°C</td>
<td>50%</td>
<td>13 Hours</td>
<td>24 Hours</td>
<td>7 Days</td>
<td>24 Hours</td>
<td>4 Weeks</td>
</tr>
<tr>
<td>15°C</td>
<td>50%</td>
<td>12 Hours</td>
<td>18 Hours</td>
<td>7 Days</td>
<td>18 Hours</td>
<td>4 Weeks</td>
</tr>
<tr>
<td>25°C</td>
<td>50%</td>
<td>6 Hours</td>
<td>9 Hours</td>
<td>7 Days</td>
<td>9 Hours</td>
<td>4 Weeks</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

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

Use of fast or low temperature hardeners may result in increased yellowing and a reduction of gloss level

NOTE: Figures shown are for non-immersion conditions. Refer to PRECAUTIONS section for overcoating intervals and requirements for immersion service

SPREADING RATE

3.4 square metres per litre equals 250 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>
</tr>
</thead>
<tbody>
<tr>
<td>STEEL – NEW OR MAINTENANCE</td>
<td>Immersion AS2312.1 Table C1 System EVH3</td>
<td>Abrasive blast clean AS1627.4 Class 3.0</td>
<td>1st Coat Duremax® GFX 2nd Coat Duremax® GFX</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>250 μm</td>
</tr>
<tr>
<td>STEEL – NEW</td>
<td>Very high corrosivity (AS2312.1 Cat C5) Exceeds System EHB6</td>
<td>Abrasive blast clean AS1627.4 Class 2.5</td>
<td>1st Coat Zincanode® 402 2nd Coat Duremax® GFX 3rd Coat Duremax® GFX</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>75 μm</td>
</tr>
<tr>
<td>STEEL – NEW</td>
<td>Very high corrosivity (AS2312.1 Cat C5) System EVH3</td>
<td>Abrasive blast clean AS1627.4 Class 2.5</td>
<td>1st Coat Durepon® P14 2nd Coat Duremax® GFX 3rd Coat Duremax® GFX</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>75 μm</td>
</tr>
<tr>
<td>STEEL – MAINTENANCE Exterior</td>
<td>Power tool clean AS1627.2 St 3 or Abrasive blast AS1627.4 Class 2</td>
<td>1st Coat Duremax® GFX 2nd Coat Duremax® GFX</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>250 μm</td>
</tr>
<tr>
<td>CONCRETE Exterior/Interior</td>
<td>Remove release agents and other surface contaminants</td>
<td>1st Coat Duremax® GFX (Thin 10-15%) 2nd Coat Duremax® GFX</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>250 μm</td>
</tr>
<tr>
<td>ALUMINIUM Exterior/Interior</td>
<td>Clean, degrease and abrade surface</td>
<td>1st Coat Duremax® GFX</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>250 μm</td>
</tr>
</tbody>
</table>

NOTE: If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT
SURFACE PREPARATION

Steel: Round off all rough welds, sharp edges and remove weld spatter. Remove contaminants in accordance with AS1627.1 Part 2.2 with Gamlen CA 1 (a free-rinsing, alkaline detergent) according to the manufacturer’s written instructions and all safety warnings. Abrasive blast clean to AS1627.4 Class 2.5 minimum.

Immersed steel: Abrasive blast cleaned to AS1627.4 Class 3. Remove all dust by brushing or vacuum cleaning.

Steel where abrasive blast cleaning is not viable: Rust, mill scale, oxide deposits and old paint films on metal surfaces must be removed by power tool cleaning according to AS1627.2. Coating performance is proportional to the degree of surface preparation.

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.

Concrete: Concrete must be at least 28 days old before coating. Remove all laitance, form release, curing compound, or other surface contaminants. Fill any large cracks or voids using Luxe epoxy® Filler.

APPLICATION

If both packs are mixed thoroughly using a power mixer and allow to stand for 10 minutes. Remix thoroughly before using.

BRUSH/ROLLER

Apply even coats of the mixed material to the prepared surface. When brushing and rolling additional coats may be required to attain the specified thickness.

CONVENTIONAL SPRAY

Thinning is not normally required, however a small amount (5% or less by volume) of Dulux® Epoxy Thinner (920-08925) can be added.

Typical Set-up: Graco AirPro: 1.8mm (239542)

Pressure at Triton 308: 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 Xtreme 45:1 or 56:1 with a fluid tip of 17–21 thou (0.43-0.53mm) and an air supply capable of delivering 550-690 kPa (80 -100 psi) at the pump. Thinning is not normally required but up to 50ml/litre of Dulux® Epoxy Thinner (920-08925) 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® Consultant 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. Do not apply at temperatures below 10°C when using Standard hardener or below 5°C when using Cold Cure hardener. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. When used with a white or pastel colour the Cold Cure hardener will impart a yellow tone that will darken with time. When used for immersion conditions the maximum overcoat interval is 3 days at 25°C. The coating MUST be completely solvent free prior to being placed under immersion conditions as a tank lining. For best results in water immersion conditions replace Dulux® Epoxy Thinner (920-08925) with Dulux® CR Reducer (965-63020). In tidal areas early immersion will result in loss of some of the coating but this will not affect performance. Do not use as a primer over galvanised steel when using Cold Cure hardener as delamination can occur. Use of fast or low temperature hardeners may result in increased yellowing and a reduction of gloss level.

CLEAN UP

Clean all equipment with Dulux® Epoxy Thinner (920-08925) 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. Epoxies must be abraded if recoated outside the recoat window.

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 illuminated by yellow light, except in tidal areas.

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 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.

USING

Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spraying, users must comply with their respective State Spray Painting Regulations.

FLAMMABILITY

This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fire with foam, CO2 or dry chemical powder. On burning will emit toxic fumes.

COMPANY INFORMATION

Dulux Protective Coatings a division of DuluxGroup (New Zealand) Pty Ltd

A.B.N. 67 000 049 427

150 Hutt Park Road, Lower Hutt, NZ

A.B.N. 55 133 404 118

1956 Dandenong Road, Clayton 3168

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PACKAGING, TRANSPORT AND STORAGE

Dulux Protective Coatings a division of DuluxGroup (Australia) Pty Ltd

1956 Dandenong Road, Clayton 3168

A.B.N. 67 000 049 427

Available in 15 litre packs

1.61 kg/litre (Average of components)

TRANSPORTATION WEIGHT

DANGEROUS GOODS

Part A: Class 3 UN 1263

Part B: Class 8.3 UN 2734

PC 256

November 2018

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