

## APPLICATION GUIDE

### EASYGUM LIQUID APPLICATION GUIDE

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## 1. INTRODUCTION

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### LIQUID MEMBRANE SYSTEM APPLICATION GUIDE

These application notes are intended as a guide to a successful installation of Easygum liquid reinforced membrane system.

The first process / system is of a single layer fibreglass reinforced membrane normally used on roofs or deck areas.

The second process / system is of a single layer fibreglass reinforced membrane normally used on below ground tanking.

The upper surface of the Easygum membrane is suitable for light traffic.

Normal in-service cleaning can be carried out by mopping or low pressure washing to maintain a clean and beautiful surface.

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# TECHNICAL INFORMATION

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Over-coating

Allow overnight drying between coats or a minimum of 4 – 6 hours at 20 deg.C. The Novapoxy can be overcoated with two pack urethane or epoxy finishes providing the coating has been allowed to cure for a minimum of 8 – 12 hours. When overcoating aged material lightly sand surface and thoroughly degrease.

Health & Safety

Waterbased. Non flammable. Non hazardous. Wash off with clean water when in contact with skin as the product may cause dermatitis. Take normal precautions for handling epoxy resins i.e. avoid contact with skin.

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**This information is intended to give a fair description of the product and its capabilities under specific test conditions. It does not constitute an offer by the manufactures nor do they warrant or guarantee its accuracy of completeness in describing the performance of suitability of the product.**

For further technical information please

Phone 09 444 1751

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**E-mail:** sales@jaydex.co.nz

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**EASYGUM LIQUID APPLIED RUBBERISED BITUMEN  
DAMP PROOFING MEMBRANE****J58****PRODUCT DESCRIPTION**

A liquid rubberised emulsion high build membrane applied wet in conjunction with chopped strand mat fibreglass to form a flexible, tough and waterproof membrane system for concrete, plywood or fibre-cement walls, decks and roofs.

**PRODUCT FEATURES**

Waterbased bituminous emulsion  
Excellent exterior durability  
Flexible – will tolerate building movement.

Colour

Black Only

Storage Temperature  
(deg.C)

Minimum 10 °C Maximum 50 °C

Shelf Life (months)

12-18

Pack Sizes Litre

1 litre, 4 litre, 20 litre

**PHYSICAL PROPERTIES**

Volume Solids

65 %

Normal Cured Film Thickness

0.9 – 1.1mm

Flashpoint

None. Waterborne system

Flexibility

Pass 3 mm mandrel

Theoretical Coverage

Easygum coats should be applied at 1 sqm / litre and allowed at least overnight to dry. Recoating times will largely depend on prevailing temperatures and humidity.

**APPLICATION**

Surface Preparation

Plywood Decks

Plywood should be a minimum 17.5mm CpD treated construction ply. Sheets must be loosed butted, glued, screwed or screwed and nailed in a staggered pattern.

Concrete and Compressed Fibre Cement Sheet

Clean down by medium pressure water blasting after suitable anti mould treatment.

General

All cracks and joints shall be given a coat of Easygum and overlaid with a strip of 300 gsm chopped strand mat into the wet liquid.

Priming

Concrete and concrete blocks

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Use Easygum diluted with 10% clean fresh water.

Mixing

Stir thoroughly with a broad paddle to ensure product is fully incorporated.

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## APPLICATION DETAILS

Methods

Except for narrow gaps and inaccessible areas all Easygum build coats shall be roller applied using a long nap roller. The order of application is: Easygum body coat with fibreglass mat laid into it while wet for detailing. Easygum second build coat at 4-5 sqm / litre  
Easygum top coat 4-5 sqm/litre

## HEALTH & SAFETY

Water based. Non-hazardous. Non- flammable.

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For further technical information

Phone: 09 444 1751 Fax: 09 444 0132  
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## ENVIROFLECT



### Description

Jaydex Enviroflect is a water based aluminium coating especially formulated for application to surfaces coated with Jaydex Easygum™ Liquid Applied Bitumen Waterproofing Membrane. By providing a metallic silver finish it keeps the surface cool and provides additional UV protection to Jaydex Easygum™ Liquid Applied Bitumen Waterproofing Membrane.

### Product Features

- Excellent adhesion to Jaydex Easygum™
- Suitable for drinking water collection
- Reflects incident sunlight keeping the surface cool
- Outstanding protection from destructive UV
- Water based application
- Quick drying
- Cures down to 5°C
- Made in New Zealand for New Zealand conditions.

### Substrate Preparation Instructions

Leave Jaydex Easygum™ Liquid Applied Bitumen Waterproofing Membrane a minimum of seven days to cure before applying Jaydex Enviroflect.

Apply two coats of Jaydex Enviroflect direct to Jaydex Easygum™ Liquid Applied Bitumen Waterproofing Membrane, allowing a minimum of four hours between coats.

### Recommended Application Methods and Techniques

Mix the contents in the can thoroughly before and during use. Apply in full, even coats. Thin, if required, for ease of application in hot or windy conditions, with up to 5% water.

Minimum Surface Temperature:	5°C
Maximum Relative Humidity:	75%
Temperature Range:	5°C – 35°C
Suitable Application Methods:	Brush, Roller, Airless Spray
Thinners:	Water
Cleaning Solvent:	Water
Max. Volume Thinners:	5%
Nozzle Orifice:	11–15 Thou
Fan Angle:	30°–50°
Nozzle Pressure:	1800 – 2500psi
Coverage rate	8–10 m <sup>2</sup> /L

### DRINKING WATER COLLECTION

The first 25mm of rainfall (equivalent to two heavy showers) from a roof freshly painted with Jaydex Enviroflect must be discarded before drinking water collection starts.

This is to ensure that water soluble extractives present in small quantities in the paint have leached out.

Note that all water collected off roof surfaces made from any material is considered to be non-potable due to possible contamination from other sources, e.g. bird droppings. Water collected of a roof can only be considered potable if it has been passed through a suitable sterilization system.

### Drying Characteristics

All figures quoted are at 20°C and 65% relative humidity.

Drying will take longer at lower temperatures and/or at higher relative humidity.

Do not paint when temperature of surface is below 5°C, above 35°C or when humidity is very high. Do not apply when rain or dew is expected within four hours.

Touch Dry:	1 hour
Recoat:	4 hours
Full Cure:	7 days

### Health & Safety

Water based, non-flammable, non-hazardous.

Wash off with clean water when in contact with skin as the product may cause dermatitis. Take normal precautions for handling paint i.e. do not ingest, avoid contact with skin and protect eyes from splashes.

Refer MSDS, available on request, for detailed safety instructions.



## TECHNICAL DATA

<b>Gloss Level</b>	65% minimum at 60°
<b>Primer</b>	None required
<b>Wash Up</b>	Water
<b>Colours</b>	Aluminium
<b>Pack Size</b>	4L, 10L
<b>Storage Temperature</b>	5°C – 50°C
<b>Shelf Life</b>	Minimum 2 years
<b>Toxicity</b>	Non hazardous waterborne paint formulated without added lead or mercury
<b>VOC content</b>	30g/L
<b>Volume Solids</b>	33.7%
<b>Wet Film Thickness</b>	65-100µ per coat
<b>Dry Film Thickness</b>	22-33µ per coat
<b>Coverage</b>	8-10sqm depending on surface texture, porosity and method of application

### Note

The information concerning the use and application of this product is intended for use by professional specifiers and applicators, is given in good faith and is believed to be correct at the date of issue. Jaydex International Ltd reserves the right to alter the product or specification without notice. The user should check the date of issue, and if more than 24 months have elapsed, should verify with our nearest sales office that the information is still current. Because we cannot control the way these products may be used, or the conditions they may be exposed to, we can give no express guarantees in respect of the performance of this product. However certain guarantees may be implied by law.

#### 4. TOOLS FOR INSTALLATION

Roller Sleeves  
Brushes  
Roller Handle  
Extension Pole  
Roller Tray  
Gloves  
Tape  
Masking Paper  
Masking Machine  
Chalk line / chalk  
Pencils  
Snap blade knife  
Hammer  
Brooms  
Rags

#### 5. SAFETY EQUIPMENT

Safety helmet  
Safety shoes  
Safety jacket  
Safety goggles  
Ladders

#### 6. CHOOSING THE RIGHT MATERIALS AND DETERMINING THE WATERPROOFING PACKAGE

Every example of a water proofing application is based around a 'system' or sequence of layers, the simplest of which consists of the substrate (supporting element) and the impermeable sheet (waterproofing element). The 'system' always depends on the type of structure to be waterproofed and its specific requirements.

In every case a system design must always take into account all the parameters which more or less directly affect the final result.

In particular the following must be considered:

- The type, material and function of the supporting element.
- The possible use of a thermal insulation element, taking note of its characteristics and behaviour.
- The climate and/or environmental conditions.
- The degree of slope
- The wind
- The geographic location, altitude, limits of rainfall and temperature range.
- The accessibility and trafficability of the site.

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During the design stage, other parameters affecting the performance of the system should not be neglected. These are:

- The aesthetic
- The durability of the materials used.
- The ease of maintenance
- The comfort under the acoustic and hygrothermic profiles
- The reaction to fire
- The performance during possible ground movements ( vibrations, etc)

When these parameters have been established, the ideal materials can be chosen and the complete waterproofing package put together.

The people involved in drawing up the project as a whole are:

- The owner
- The designer or architect
- The builder
- The material manufacturer and supplier
- The applicator

All these people must contribute each within their own field, to the necessary materials, thus ensuring compliance with all specification requirements.

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## 7. SUBSTRATE PREPARATION ROOFING:

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### DESIGNATION

Responsibility shall be designated for all substrate preparation between the main contractor and sub contractor at the time of contract formulation or contract tender, not after contract acceptance.

Unless specified in the contract documents it is the full responsibility of the main contractor to prepare the various substrates according to the following criteria. Failure to strictly meet these criteria will invalidate the required warranty arrangement issued by waterproofing sub contractor and supplier.

### CONCRETE

Concrete shall be correctly formed to falls where required, and cured at least 28 days prior to membrane application (curing time is 7 days per 25mm of concrete thickness).

For **Jaydex sheet applied** (APP modified bitumen) membrane applications, the concrete surface shall be finished to NZS3114:1980U2. Wood or bull float (power driven floats are not to be used).

For **Jaydex liquid applied** (water based) acrylic or bitumen rubber membrane applications, concrete surface can be finished to either a NZ3114:1980 U2 or U3. Power driven floats are not to be used for this process. If cured concrete surface has a high pH it must be acid etched to bring it down to around pH7 before liquid applied acrylic membrane application commences.

All ridges and protrusions in the concrete surface shall be stoned flush. All dust and surface contaminants to be cleaned away.

Note: In –situ site concrete moisture content is the responsibility of the Building Contractor and their Plywood Supplier not the Membrane Supplier and/ or Installer

Depressions in the concrete surfaces shall be flushed with sand, cement, Jaydex Aquamix gauged patch mix and allowed to cure for at least 48 hours before preparation priming.

### PLYWOOD

#### Plywood Grade and Thickness – Standard

Plywood shall be

- 1 A minimum 17mm complying with AS/NZ 2269
  - 2 At least CD grade structural plywood, with sanded C face upwards
  - 3 H3.1 with treatment type compatible with membrane and adhesives used and kiln dried after treatment.
- The compatibility of LOSP – treated plywood must be checked with membrane suppliers.

#### Plywood Moisture Content

In situ Plywood sheets to be 20% maximum prior to application of membrane overlay.

#### Sheet Layout

All sheets shall be laid out so as to maximise the use of whole sheets. All sheet joints shall be laid over framing members, in a staggered pattern with sheet lengths running at right angles to supports. See Table 2 over page.

#### Sheet Spacing

Sheets shall be laid loose **butt jointed** before fixing in place. No deliberate end gaps or enforcement between plywood sheets are permitted.

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**Sheet Fixing**

Plywood must be fixed in accordance with the Manufacturers instructions taking into account wind loading, frame spacing and ply thickness. See Table 1 over page.

All plywood must be screw fixed using countersunk corrosion resistant 10g x 50mm screws. Sheets must be laid in a bead of construction adhesive along all framing members. Fixings must be spaced a maximum of 150mm around outside edge of plywood sheeting and a maximum of 200mm for the plywood interior sheeting. All screw heads shall be recessed below the level of the sheet face, and flushed over with an appropriate wood filler. There must be a maximum of 3mm screw spacing between adjacent plywood sheets.

**GENERAL PREPARATION FOR PLYWOOD OR CONCRETE**

*Edges*

Sharp cornered horizontal/vertical roof/deck line edges to be pencil rounded.

*Fillets*

Timber or concrete fillets 50mm x 50mm to a minimum of 20mm x 20mm shall be tightly installed at all vertical/horizontal junctions.

*Falls*

Falls in roof substrate and internal gutters should have a minimum fall of 1.5° (1:40). Decks must have: 1.A minimum fall of 1° (1:60)

2. A maximum area of 40sqm
3. No steps in level within deck area except into gutters
4. No internal roof gardens
5. No down pipe direct discharge to deck.

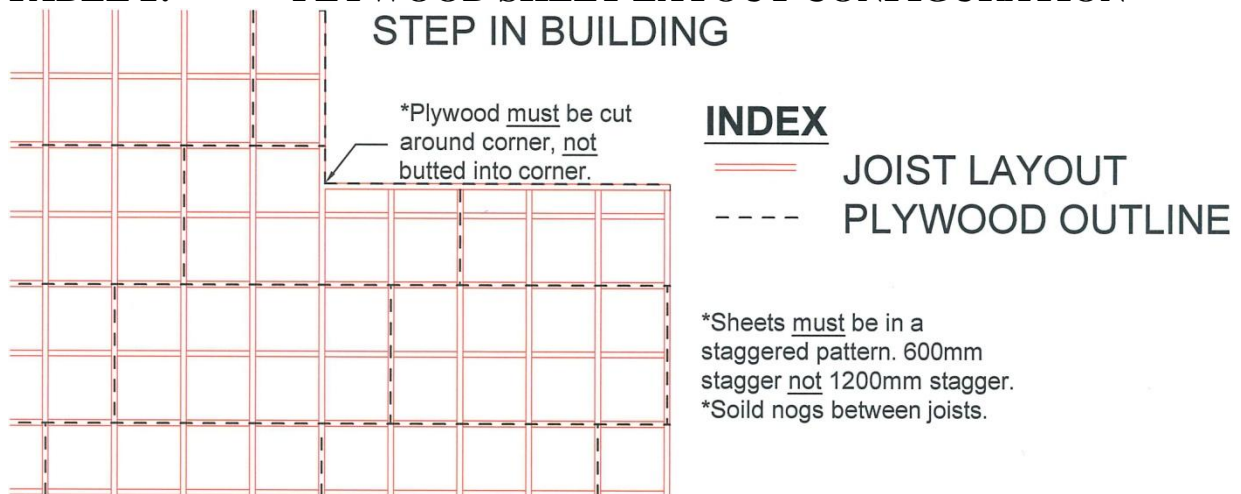
*Outlet Types*

Contact **Jaydex** or refer to **Jaydex** catalogue for further assistance on outlet type and suitability.

**Jaydex** outlets of various shapes and composition are available to drain water through parapet walls, from deck floors, roof tops & internal gutters.

The **Jaydex** outlets all reliably interface with all the **Jaydex** membrane systems.

**TABLE 2: PLYWOOD SHEET LAYOUT CONFIGURATION**  
**STEP IN BUILDING**



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## 7.1 SUBSTRATE PREPARATION TANKING: INTRODUCTION

The substrate onto which the membrane is laid must be designed and subsequently constructed to be dimensionally stable over its service life to support the membrane.

In some exceptional situations usually involving large areas and lift pits, movement/expansion joints must be designed in and constructed to reduce anticipated excessive structural and substrate movement.

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### Designation of Responsibilities

#### Designer

1. Substrate Material Composition
2. Substrate/Structural Support Criteria
3. Substrate Falls, Drainage Venting
4. To consult with Jaydex

### GENERAL PREPARATION FOR CONCRETE SUBSTRATES

#### Edges

All sharp cornered horizontal/vertical roof/ deck edges to be chamfered or pencil rounded.

#### Fillets

Timber or concrete angle fillets at a minimum (20mm x 20mm) shall be tightly installed at all vertical/horizontal junction lines.

### CONCRETE SUBSTRATES

#### New Concrete Substrates

New concrete substrates are generally structural building elements in their own right. They must be designed and built to the engineer's recommendations and specifications, the NZ building code and other relevant standards.

Where a concrete surface forms the membrane substrate interface; chemical, curing agents must not be used. If used, any such curing agents must be removed by an abrasion method to ensure complete removal. Failure to do so can result in the failure of the adhesion membranes to the substrate surface.

Concrete substrates must be laid to incorporate coves to upstands and rounded corners, drainage outlets at low points and integral expansion joints.

Under normal circumstances, there should be a minimum 28 – day curing period of the concrete surface before membranes are applied over.

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## **8. INSTALLATION OF EASYGUM REINFORCED SINGLE LAYER ROOF MEMBRANE SYSTEM**

### **PRIMING**

To a dried prepared surface apply one coat of Easygum primer by brush/roller at a spreading rate of (6) sqm/litre. Leave to dry.

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### **GUSSETS**

All external or internal corners are to have a fibreglass gusset installed using the Easygum base coat as the laminating medium.

### **DOUBLES**

At all plywood or concrete joints, changes of direction from the vertical to the horizontal apply a 100mm to 150mm Easygum bandage to add strength at these points.

NB: Both sides of the fibreglass bandage are to be feathered to improve the total aesthetic appearance.

### **FIBREGLASS ENCAPSULATION**

To encapsulate the fibreglass, it is important to only work an area of no more than a square metre.

Applying liberally the Easygum body coat over the pre-primed substrate. Cover the body coat with a layer of fibreglass 300 chopped strand mat.

Using No2 lambs-wool roller sleeve or similar, roll over the surface of the fibreglass, bringing the Easygum body coat through to the top surface ensuring the total area being treated is fully encapsulated. Continue the process overlapping at the edges a minimum of 80mm.

### **TOP COAT**

Apply one coat of Easygum at a spreading rate of 4-5 sqm per litre and allow to dry.

### **EASYGUM TO GUTTERS**

The same application procedures are used in gutters as they are on roofs and decks.

### **GLAZE COAT**

Apply by brush and roller one (1) coat of Envirofect or Alumaticote at a spreading rate 8 sqm per litre and allow to dry.

### **ROOF VENTS**

For ventilating enclosed cavities below rooflines.

We recommend low-profile tough light Jaydex vents be installed at a maximum of 20 sqm per vent.

### **OUTLET TYPES**

For removal of surface water runoff.

These come in varying shapes and sizes, in brass or cast iron/aluminium composition and are available under the **Jaydex** brand name. On smaller roofs and decks many outlets are made in situ from sheet, steel, or copper, Refer to **Jaydex** for further assistance on outlet type and suitability.

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## 9. INSTALLATION OF EASYGUM

### INSTALLATION OF EASYGUM DAMP PROOFING MEMBRANE SYSTEM

#### PRIMING

To a dried prepared surface apply one coat of Easygum primer by brush/roller at a spreading rate of 6 sqm/litre. Leave to dry.

#### GUSSETS

All external or internal corners are to have fibreglass gussets installed using the Easygum base coat as the laminating medium.

#### DOUBLES

At all concrete joints, changes of direction from the vertical to the horizontal apply a 100mm to 150mm Easygum fibreglass bandage to add strength at these points.

NB: Both sides of the fibreglass bandage are to be feathered to improve the total aesthetic appearance.

#### FIBREGLASS ENCAPSULATION

To encapsulate the fibreglass, it is important to only work an area of no more than a metre.

Applying liberally the Easygum body coat over the pre-primed substrate. Cover the body coat with a layer of fibreglass 300 chopped strand mat.

Using a No2 lambs-wool roller sleeve or similar, roll over the surface of the fibreglass, bringing the Easygum body coat through to the top surface ensuring the total area being treated fully encapsulated.

#### Damp proof coats

Apply the first coat of Easygum at a spreading of 4-5sqm per litre to the total area including those details that have been fibre reinforced and allow a minimum of 2hrs to dry.

Apply the second coat of Easygum at a spreading rate of 4-5sqm/litre over the previous coat and allow to dry for a minimum of 24 hours.

#### Protection

Install the specified protection board prior to back filling.

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## 10. INSTALLATION OF EASYGUM

### REINFORCED SINGLE LAYER MEMBRANE TANKING SYSTEM

#### PRIMING

To a dried prepared surface apply one coat of Easygum primer by brush/roller at a spreading rate of 6 sqm/litre. Leave to dry.

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#### GUSSETS

All external or internal corners are to have fibreglass gussets installed using the Easygum base coat as the laminating medium.

#### DOUBLES

At all concrete joints, changes of direction from the vertical to the horizontal apply a 100mm to 150mm Easygum fibreglass bandage to add strength at these points.

NB: Both sides of the fibreglass bandage are to be feathered to improve the total aesthetic appearance.

#### FIBREGLASS ENCAPSULATION

To encapsulate the fibreglass, it is important to only work an area of no more than a metre.

Applying liberally the Easygum body coat over the pre-primed substrate. Cover the body coat with a layer of fibreglass 300 chopped strand mat.

Using a No2 lambs-wool roller sleeve or similar, roll over the surface of the fibreglass, bringing the Easygum body coat through to the top surface ensuring the total area being treated fully encapsulated. Continue the process overlapping at the edges a minimum of 80mm.

#### Reinforced Layer

To encapsulate the fibreglass, it is important to only work an area of no more than a square metre at a time.

To reinforced and primed areas apply a full body coat of easygum using a No2 lambs wool roller sleeve or similar, roll over the surface of the fibreglass, bringing the body coat through to the top surface ensuring the total area being treated is fully encapsulated. Continue the process overlapping at the edges a minimum of 80mm.

#### TOP COAT

Apply by brush or roller a final coat of Easygum to the total area at a spreading rate of 4-5 sqm per litre and allow to dry for a minimum of 24 hours.

#### Protection

Install the specified protection board prior to back filling.

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