

SPECIFICATION:

Jaydex High Build Acrylic Membrane System with a Sealed Finish for a Plywood Pedestrian Deck

DECK SOLUTION

AQUA150P

AUGUST 2010

INTRODUCTION

This specification includes the preparation and application of the **Jaydex Aquadex** waterbased high build acrylic membrane system, to a plywood deck. The **Aquadex** is liquid applied direct to a deck/roof surface inclusive of a layer of fibre glass reinforcement and left to cure. It is left exposed and is resistant to constant pedestrian activity during its service life. **Aquadex** is colour variable, but is normally a neutral grey.

NOTE: *Jaydex versus many of its competitors, market a high quality styrene polymer based acrylic that does not re-emulsify during its service life.*

SUBSTRATE PREPARATION

Plywood shall be a minimum 17mm CD treated structural plywood, laid out to maximise whole sheets in a staggered pattern, butt jointed, with a maximum support joist spacing of 600mm.

The plywood sheets shall be glued to the support joists and at all butt joints and screw fixed using counter sunk corrosion resistant screws of the correct length and spacing

Timber fillets 20mm x 20mm minimum shall be installed at all vertical and horizontal junctions. Falls to be a 1:40 minimum for Deck Areas and 1 in 100 minimum for any associated Internal Gutters as per E2/AS1.

APPLICATION OF THE MEMBRANE SYSTEM

Primer

Apply 1 coat of **Jaydex Novapoxy WB** primer at a spread rate of approximately 7 sqm/litre over total area of plywood deck/roof.

Membrane to Deck/Roof

Apply 150 mm wide stripe coat of **Aquadex** reinforced with 300 gsm chopped strand fibreglass mat centred over all flat of vertical transitions, plywood sheet joint lines and internal/external corners prior to main membrane application. Ensure all drainage outlet openings are well dressed into as part of this process.

The membrane comprises **Aquadex** and 300 gsm glass fibre mat and is applied in the following sequence:

- 1st Coat Apply bodycoat of **Jaydex Aquadex** with a glass fibre mat (laid into wet bodycoat) and leave to dry 24 hours minimum without rain exposure.
- 2nd Coat Apply bodycoat of **Jaydex Aquadex** and leave to dry.
- 3rd Coat Apply bodycoat of **Jaydex Aquadex** and leave to dry.

Note: In exceptional situations such as pedestrian walkways the 3rd coat of **Aquadex** can be substituted for a slip resistant version of **Aquadex** where a fine sand is mixed into this 3rd coat to create a more pronounced texture finish. See Slip Resistance Accreditation of this version of Aquadex.

4th Coat Apply glazecoat of **Jaydex Aquaseal** and leave to dry. The average coverage approx 2 sqm/litre for **Aquadex** & approx 7 sqm /litre for **Aquaseal**

NOTE: In an area where the **Jaydex Aquadex** will be subjected to significantly above normal abrasion and/or chemical attack the 4th coat of **Aquaseal** (glazecoat) is substituted for (2 sequential coats of **Jaydex Novathane** a water based epoxy / polyurethane). The roof/deck areas typically involved would be around air conditioning units and on sheltered vehicle decks.

NOTE: Vehicle decks must have a minimum of 25 mm thick plywood or compressed sheet that is prepared and applied in exactly the same way as the Substrate Preparation for plywood but with a Registered Engineer certifying the structural capability of the Wooden Deck Substrate itself.

Application of the **Jaydex Novathane** shall at all times be in strict accordance with manufacturers instructions particularly with regards to spreading rates and dry times, to ensure a sound tight membrane is achieved long term.

DRAINAGE OUTLETS

Jaydex possess Outlets of Tough Light Composition and of various Aperture Sizing. These units incorporating flanges to ensure watertightness can drain water away through parapets, deck/roof inverts and from internal gutters. Jaydex also possess sump units to cater for both the overflow and outlet function in the same unit.

MAINTENANCE

- 1** The Jaydex Membrane Roof/Deck system, must be regularly checked for damage by others. Any damage, detected must be correctly repaired and where applicable a recoat carried out over the membrane. All rubbish / debris left lying on the membrane surface must be removed.
- 2** Jaydex Side and Dropper drainage units must be regularly checked with removal of any accumulated rubbish at the inlets. All inlets should have Jaydex proprietary grates installed in them.
- 3** Jaydex recommend a periodic clean down with water; (plus 1 percent soap) of all exposed Membrane Roof / Deck Surfaces in conjunction with a Moss Inhibiter.

WARRANTY

When Jaydex Licensed Contractors apply this membrane system in accordance with this specification a standard warranty will be issued for up to fifteen (15) years.