

October 31, 2019

EQUUS Industries Limited
Sheffield Street, Riverlands,
Blenheim.
Attention Brian Greenall

A Product Technical Statement for –

Chevaline DEXX trafficable liquid applied membrane, supplied by EQUUS Industries Ltd.

1. Statement of Building Code Compliance

The **Chevaline DEXX** trafficable liquid applied membrane ‘system’, supplied by EQUUS Industries Ltd., (Chevaline DEXX system) will comply with the following performance clauses of the New Zealand Building Code (NZBC) based on the evidence described in the relevant sections of this document:

- **Clause B1.3.3 – Resistance to wind uplift, refer to Section 4.1**
- **Clause B2.3.1(b) – Durability for at least 15 years, refer to Section 4.2**
- **Clause C3.4 (b) – Fire affecting areas beyond the fire source, refer to Section 4.3**
- **Clause E2.3.1 – Suitable for snow falls, refer to Section 4.4**
- **Clause E2.3.2 – External Moisture resistance, refer to Section 4.5**
- **Clause F2.3.1 – Hazardous Materials absent, refer to Section 4.6**

2. Scope of Use (including limitations)

Chevaline DEXX is intended to be used as a trafficable waterproofing membrane over new and existing residential and commercial roof and deck substrates, and for use in interior wet areas such as bathrooms, that have been surveyed, and prepared in accordance with the Chevaline DEXX Know How sheets WA223 (for plywood) dated Jan 2016 and WA224 (for wet areas)

Chevaline DEXX is to be applied only by EQUUS trained and approved applicators.

The condition of the substrate, including falls, shall be inspected by the approved applicator before work commences, but the condition and associated substructure shall be the responsibility of the building owner, or their agent.

Chevaline DEXX Specifications P3011 to P3015 inclusive detail the requirements of the substrates and relevant substructure required

On completion of the work, a Workmanship and Application Warranty is provided.

On completion of the work, the building owner is supplied with a maintenance schedule/document.

3. Consenting instructions

This Product Technical Statement is based on an independent review and assessment of the technical information supplied by the manufacturer, by a recognised experienced and competent entity.

This review included a review of the technical literature to ensure accuracy and ease of understanding.

This review also covered a quality management system that includes checklists and record-keeping, that may be accessed by BCA inspectors to verify compliance.

4. Basis for the assessment

As with any claim of compliance with performance clauses of the NZBC, appropriate evidence such as test reports, is required to be reviewed by a competent independent entity.

In addition, the technical literature including any drawings, warranty or maintenance statements need to be reviewed to ensure the absence of inaccurate, unclear or misleading statements. Any quality system related to the product shall likewise be reviewed.

Finally, any in-service history of the product, would be taken into account.

These matters have been taken into account in preparing this Product Technical Statement.

Chevaline DEXX is intended to be used as a trafficable waterproofing membrane over new and existing residential and commercial roof and deck substrates, and for interior wet areas such as bathrooms, that have been surveyed, prepared in accordance with the Chevaline DEXX Know How sheets WA223 (for plywood) dated Jan 2016 and WA224 (for wet areas)

The components of the Chevaline DEXX System encompass –

- Chevaline DEXX Primer (or in some cases Chevaline Epistix or Chevaprime PBT)
- Chevaline DEXX body coat
- 300gsm glass fibre E-mat
- Correct Chevaline or Traxx topcoat for in-service durability of the installation

The product is a heavy-bodied acrylic membrane applied to a dry film thickness of between 1.2mm and 1.5mm** and reinforced with chopped fibreglass mat. It can be applied in a variety of colours to suit, but is most commonly supplied in a light grey colour.

**depending on the number of glass mat layers used

As mentioned, the Chevaline DEXX system comprises of a primer, at three applications of the acrylic body-coat incorporating a glass fibre mat. Where required, a wear-coat utilizing graded silica which provides excellent slip-resistance, or a coloured glaze coat, can be applied over the system. The application of either of these topcoats is mandatory in all exterior exposure applications

The nature of the primer and body coat ensure excellent adhesion to the specified substrates.

Chevaline DEXX is designed to provide a serviceable life of at least 15 years, provided that the specified maintenance has been carried out.

4.1 Compliance with B1.3.3 – Resistance to wind uplift

There is sufficient in-service history to verify the ability of the applied product to resist the forces associated with wind up-lift, including on buildings over over 10 m in height. This is due to the nature of the cohesive bond between the product and specified substrates.

4.2 Compliance with B2.3.1(b) - Durability for at least 15 years

In addition to the in-service history provided, the test data supplied, indicates a durability of the product system to perform in the specified environments, subject to the required maintenance, for a period of at least 15 years.

4.3 Compliance with C3.4 (b) floor surface materials – suitable for Exitways in all other buildings

Test data together with in-service history of the correctly installed Chevaline DEXX system over correctly designed and constructed substrates, show a resistance to fire affecting areas beyond the fire source.

4.4 Compliance with E2.3.1 – suitable for snow falls

Roofs and decks protected from the weather with Chevaline DEXX will also comply with performance clause E2.3.1 provided the substructure and drainage have been correctly designed.

4.5 Compliance with E2.3.2 – resistance to external moisture

Test data together with in-service history of the correctly installed Chevaline DEXX system over correctly designed and constructed substrates, show that the membrane resists the ingress of moisture.

4.6 Compliance with F2.3.1 – the absence of materials hazardous to occupants

Well known experience with the type of materials used together with in-service history, show that the Chevaline DEXX system complies with this performance requirement.

In summary, the test data, in-service history and this assessment, all demonstrate compliance of the Chevaline DEXX system with the above-mentioned performance clauses of the NZBC, when installed as described in the manufacturer's technical and quality system information.



C.R.Prouse – Principal
BEAL Professional Services Limited.

This PTS is a summary of an assessment of the manufacturer's information at the time of writing. Users are directed to the manufacturer's web site www.equus.co.nz to ensure that they have the most current version.