

Standard Specification for the application of Chevaline Dexx on concrete surfaces

Project:
Specification: P3012
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Page 1 of 4

1.0 PREAMBLE:

This specification is for the application of the **Chevaline Dexx** Waterproof Membrane System to concrete, solid plaster and mastic asphalt surfaces in situations subject to foot traffic and minimal surface abuse. This generally applies to domestic and light commercial deck/patio areas, and most solid construction roof areas not used for car parking or intensive commercial activity (in this instance refer to Specification P3013).

2.0 SURFACE PREPARATION:

2.1 General Responsibility:

Unless expressly agreed otherwise at time of contract pricing, all work in this section shall be the responsibility of the Main Contractor, whether carried out by his own staff, other sub-trades or the Specialist Finishes Sub-Contractor. In the latter case, such preparatory work shall be priced separately from work defined in Sections 3.0-5.0 inclusive.

2.2 Mosskilling Treatment:

All surfaces shall be treated with Equus **Mosskill** solution to kill all moss/mould spores and growths. Stipulated kill-times shall be observed.

Note: Badly affected surfaces may require treatment before and after waterblast cleaning to ensure a residual moss-kill treatment before coating application.

2.3 Cleaning:

All surfaces to be waterproof shall be waterblast cleaned to remove all construction detritus and laitance, providing a lightly profiled surface ready for coating application. Surfaces which have been power-floated should, if possible, be acid etched to "open" the surface and then thoroughly rinsed. Pebbled surfaces may require additional scarifying to remove all pebbles/binder back to a relatively smooth surface.

2.4 Patching:

Surface imperfections shall be patched, using either a **Thermexx** mortar for minor imperfections in concrete or a **Chevacryl Admix**-gauged patch mortar for larger irregularities in concrete or mastic asphalt. Other proprietary surface patch mixtures shall **not** be used.

Note: Irregular mastic-asphalt surfaces may require an asphalt-emulsion/cement/sand plaster application to level to falls prior to membrane application. If doubt exists as to correct treatment, Equus should be contacted for a detailed preparation procedure.

3.0 SURFACE PRETREATMENT:

3.1 Expansion/Movement Joints:

Such designed joints exceeding 6mm in width are not to be overlaid with **Chevaline Dexx**, but shall be sealed using **Dymonic 100** which shall remain exposed.

3.2 Shrinkage/Settlement Cracking and Construction Joints:

.1 Concrete /Solid Plaster:

Any regular cracks greater than 1mm width which appear likely to move regularly shall be saw-cut or chased to 5mm width and 8-15mm depth, primed and sealed with **Dymonic 100**. All such sealant joints shall be overlaid after surface priming, with a 150mm strip of 300 gsm. chopped strand fibreglass matt bedded in **Chevaline Dexx**. The **Dexx Membrane** shall be carried over such cracks.

.2 All Surfaces:

Irregular cracks for which saw-cutting or chasing is impractical, shall be pretreated after surface priming with **Chevaline Dexx** applied as a 100-150mm wide band, with 300 gsm glass-fibre mat or tape embedded as a reinforcement. This shall be allowed to dry overnight before membrane application is begun.

.3 Upstands:

All monolithic horizontal/vertical transitions which are not already covered shall be rounded to 5mm minimum radius using **Dymonic 100** applied as a fillet at least 24 hours before membrane application. Where the transition is not monolithic, a plaster or timber fillet of 50x50 section shall be installed prior to **Dexx** application.

4.0 MEMBRANE APPLICATION:

4.1 Primer:

All surfaces to be coated shall be primed with a **Chevaline Epistixx** correctly mixed and diluted for roller or brush. Application of this shall include upstands to a minimum height of 100mm adjacent to all horizontal surfaces being coated. Spreading rate will depend on surface profile and porosity, generally in the range of 8-10sqm/litre of mix.

Note: If there is likely to be a delay in membrane application apply a Thin keycoat of **Dexx 80/20** within 24 hours of primer application, to ensure good bonding of the membrane system Allow overnight dry before proceeding with membrane application.

4.2 Membrane Application:

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

- **Chevaline Dexx Bodycoat**
Glassfibre mat (laid into wet Bodycoat)
Chevaline Dexx Bodycoat (applied to wet glassfibre mat)
- **Chevaline Dexx Bodycoat**
- **Chevaline Dexx Bodycoat**

Application shall at all times be in accordance with Manufacturer's instructions particularly with regard to spreading rates and dry times, to ensure a sound tight membrane is achieved.

4.3 Extra Thickness - Traffic Areas:

In areas of high traffic use allowance shall be made for an additional thickness of glass fibre mat and an additional bodycoat within the membrane system, to ensure resistance to such

traffic and increased likelihood of impact damage. Such areas shall be clearly delineated on plans.

4.4 Glazecoat:

.1 All High Traffic Use Surfaces:

These surfaces shall be sealed with a minimum of one (1) coat of **Traxx 2000** applied by soft broom, roller or spray at a spreading rate of approx 11-12 sqm/litre as supplied.

.2 All other Surfaces:

These surfaces shall be sealed with one (1) full coat of **Chevaline Dexx Topcoat** applied by roller, brush or spray at a spreading rate of 10-11 sqm/litre as supplied.

5.0 SPECIFICATION NOTES:

5.1 Upstands/Coves/Sumps/Downturns:

The **Dexx** Membrane shall be taken 100mm up all associated upstands, and turned into any rainwater sumps which may be incorporated in the deck. Where permanent ponding is likely in sumps and gutters, a finish coat of **Traxx 2000 Wearcoat** applied at 8-10 sqm/litre should be substituted for the chosen wear coat.

5.2 Water Entry Points:

Ensure that all likely construction details which may allow water entry to the area beneath the membrane are adequately sealed. This may necessitate extension of the **Dexx** Membrane or a compatible waterproof coating system to drip edges, particularly on associated stub walls and overhangs, where the **Dexx** membrane should be turned down the entire thickness of the roof/deck to a drip edge.

5.3 Colour and Gloss

The colour of the membrane and glazecoat shall be the same in any area, and shall be nominated by the Architect. The gloss shall be stipulated by the Architect either Gloss, Satin, depending on service conditions and appearance required.

5.4 Optional Wearcoat:

Where a non-slip surface is necessary, **Dexx Wearcoat** shall be used as an additional coat prior to application of **Traxx 2000** or **Dexx Topcoat**. This is recommended on stairs and landings in particular.

5.5 Placing of Timber Decking or Pedestals and Pavers:

The treated areas may be placed in service 48 hours after glazecoat application.

6.0 MAINTENANCE AND WARRANTY:

6.1 Maintenance:

The **Chevaline Dexx** Membrane may be cleaned at any time by low pressure spraying/brooming and hosing off using a weak (0.1%) neutral detergent solution. Floor sweeping machines and/or abrasive cleaning agents shall not be used.

It is recommended that the surface be inspected at 4-5 yearly intervals, and, if necessary, a further application of **Chevaline Dexx Topcoat** as appropriate be carried out to preserve the appearance and performance of the applied membrane.

Should mechanical damage occur because of undue wear, vandalism or associated building maintenance, the **Dexx** can be easily replaced by patching and/or resurfacing as required, after simple preparation.

6.2 Warranty:

The **Chevaline Dextx** membrane system described in this specification may be warranted as waterproof for a period of up to fifteen (15) years, provided that:

- (a) All work is carried out by an Approved Equus Applicator.
- (b) All work is carried out in accordance with this specification or any amendments or additions thereto made by the Manufacturer.
- (c) For warranty periods in excess of ten (10) years, the warranty includes the appropriate Maintenance Statement.

The warranty is provided to the client by the Equus Applicator carrying out the work and is backed by the Manufacturer as to the fitness for purpose of the materials supplied for the contract.

It should be noted that as the surface may be a wearing surface, certain provisions regarding mechanical damage and maintenance recoating may be incorporated within the warranty, depending entirely upon the declared intended use to which the surface is to be put.

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