

Standard Specification for the application of Chevaline Dexe on concrete, plywood or Hard Foam Plastic Shower Base surfaces to be subsequently tiled

Project:
Specification: P3014
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1.0 PREAMBLE:

This specification is for the application of the **Chevaline Dexe** Waterproof Membrane System. This specification applies to surfaces which include concrete bases in trafficable deck areas and 'wet' areas which are to receive tiles as a wearing surface.

These areas generally occur in domestic and light commercial construction. Note that this specification may also apply when compressed fibre-cement sheets are used as an underlay in similar situations.

2.0 SURFACE PREPARATION:

2.1 General Responsibility:

Unless expressly agreed otherwise at the 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 Concrete: Screed to falls:

Falls shall be determined and made up from **Schomburg EZ6** light weight rapid set screed. Mixing and set up as per manufacturer's instructions.

2.3 Plywood, Compressed Sheet and Tile Underlay:

Plywood Grade and Thickness

.1 Structural Underlay - general usage:

Plywood shall be minimum 18mm C-D treated structural plywood, unless otherwise expressly stipulated by the specifier. Note that tiling does impose an extra dead load on the surface, and in cases of doubt as to the total load, consideration should be given by the specifier to the use of 21mm C-D treated structural plywood to increase stiffness in the substrate.

.2 Overlay to existing sarking only:

Plywood shall be minimum 12mm C-D treated structural plywood, unless otherwise expressly stipulated by the specifier.

.3 Plywood Treatment:

Treatment should be H3 or H1 + Boron. LOSP treated plywood is not recommended.



.4 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. Framing should be in accordance with NZS3604 recommendation as a minimum. Generally framing shall be at 400 centres maximum in both directions.

.5 Back Priming:

Sheets used over spaces which are not ventilated shall be back-primed with **Chevaprime PBT** or equivalent prior to installation.

.6 Sheet Spacing:

Sheets shall be laid tight butt-jointed, with edges pre-primed with **Chevaprime PBT** or **Chevaline Epistix**.

.7 Sheet Fixing:

Plywood, compressed sheet and tile underlay must be fixed in accordance with Manufacturer's instructions taking into account wind-loading, frame spacing and ply thickness. Screw-fixing is mandatory using countersunk stainless steel screws. Minimum screw length shall be 50mm for 18mm plywood. All sheets shall be laid in a bead of construction adhesive along all framing members.

All fastener heads shall be recessed below the level of the sheet face.

All surface defects and fasteners shall be flushed out with an approved filler such as Epar Epoxy Mortar.

2.4 Hard Foam Plastic Shower Base:

Shall be correctly assembled and firmly located in place prior to commencement of treatment. Any protective film or wrapping shall be removed and the surface wiped clean.

3.0 SURFACE PRETREATMENT:

3.1 Surface Defects:

All splits and surface defects shall be flushed with Epar Epoxy Mortar which shall be allowed to dry before membrane application is begun. This shall include any gaps occurring because of irregularities in sheet edges at tight-butt joints.

3.2 Treatment of Sheet Joints:

Apply a 150mm wide strip of 300gsm. chopped strand fibreglass mat centered over all joints, and firmly bedded in Chevaline Dexx. This shall be done after priming (see 4.1) and before membrane application.

3.3 Upstands, Junctions and Joints:

All vertical/horizontal transitions and joints shall have a minimum 150mm wide strip of 225 gsm or 300 gsm glass fibre mat embedded in **Chevaline Dexx** and centered on the transition/joint as additional stress reinforcement. This shall be done after priming and before application of the **Dexx** membrane layer. Timber fillets (ex 25 x 25 H3 treated timber) shall be fixed to the deck at all transitions prior to installation of the reinforcing strips. Where timber fillets cannot be used a minimum 10 x 10 fillet of **Dymonic 100** sealant shall be formed in place after priming and prior to reinforcing strip application.



4.0 MEMBRANE APPLICATION:

4.1 Primer:

All surfaces to be coated shall be primed as follows:

Plywood – **Chevaprime PBT** or **Chevaline Epistixx**

Compressed Sheet)	
Tile Underlay)	Chevaline Epistixx
Concrete)	
Hard Foam Base)	

Where **Epistixx** is used, care shall be taken with mixing and dilution and an overnight dry shall be allowed prior to application of membrane coats.

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.

If the treated area is to be left exposed for more than 6 months in an exterior situation prior to tiling, allow for the use of one (1) coat of **Traxx 2000** or **Chevaline Dexx Topcoat** applied at 12sqm/litre as a protective glazecoat. This will protect the body of the membrane for up to 5 years.

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 floor slab or deck.

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. Ensure that any unavoidable penetrations through the membrane for fixings, are correctly gasket sealed using **Dymonic 100** sealant when the fixing is installed.

5.3 Testing and Handover:

As membrane installation and tiling are generally separate sub-contracts, it is imperative that after the **Dexx** application has been completed and used, a minimum 24-hour pond-test is carried out. When the Applicator and Main Contractor are satisfied that the membrane is correctly detailed, sound and watertight, the installation shall be signed off on the Contract QA Sheet by both parties, prior to hand-over of the area to the Tiler.



5.4 Placing in Service/Tiling:

The treated areas may be placed in service 48 hours after the handover pond test sign-off.

Note: that tiling must be carried out using an approved thin-bed tile adhesive, generally of the acrylic-modified/cementitious type. **Schomburg Unifix S3** has been tested on **Dexx** and found to be fully compatible. The Tiler must exercise all due care during installation to ensure the integrity of the membrane is not compromised

6.0 MAINTENANCE AND WARRANTY:

6.1 Maintenance:

It is recommended that the installation be inspected at 4-5 yearly intervals, to ensure that the tiled surface is in good condition and that nothing has been done by way of alteration, installation or mechanical damage which may jeopardise the integrity of the total installation.

6.2 Warranty:

The 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 Contractor.
- (b) All work is carried out in accordance with this specification or any amendments or additions thereto made by the Manufacturer, and the installation has been signed off prior to tiling.
- (c) All drainage points are maintained and cleaned regularly.

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

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