

Standard Specification for the application of Equus Chevaline Epistix Rapid NS floor coating system

Project:
Specification: P4071
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1.0 PREAMBLE:

The specification is for the application of a three-coat **Chevaline Epistix Rapid NS** Non-Skid Floor Coating System to new and old concrete floors. Appropriate allowance is made for preparation and upgrading of existing concrete floor areas to provide uniform surface.

This system is water-borne, and thus has particular relevance in areas where solvent 'taint' during application and curing could create problems on site, such as in food facilities which must remain operating during the coating process.

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 New Concrete:

- .1 Shall be correctly formed to falls where required and cured at least 21 days prior to coating application.
- .2 No curing membranes shall be used. If a curing or parting membrane is used, the main contractor shall ensure all traces of curing/parting membranes are removed prior to the Specialist Finishes Applicator commencing work.
- .3 Concrete slabs shall be finished to NZS 3114:1980 U3 finish, and concrete ex form work shall be finished to NZS 3114:1980F5X with no discontinuities allowed.
- .4 All concrete surfaces shall have ridges, nibs and protrusions ground flush with adjacent surfaces.
- .5 Depressions shall be flushed with the **Schomburg ASOCRET BIS** range and allowed to cure 48 hours before overcoating.
- .6 All formed or sawn expansion joints shall be left uncaulked with neat edges, ready for joint sealing after coating application

2.3 Existing Concrete

- .1 Shall be thoroughly cleaned by scrubbing with a hot solution of Basol 88 or similar strong alkaline cleaner.
- .2 Shall then be high pressure water washed to remove all contaminants from the surface.
- .3 Shall have the above steps repeated as necessary to ensure that all oil and contaminants are removed from the surface.
- .4 Shall have any nibs, ridges or protrusions ground flush with the surrounding surface.
- .5 Shall have any existing cracks construction joints or expansion joints saw cut to a correct profile and blown/vacuumed clean of all detritus.

3.0 SURFACE PRETREATMENT

3.1 Acid Etching:

Prior to coating application, all surfaces to be coated shall be acid-etched, to 'open' the surface and remove any laitance. If acid-etching cannot be done, for practical site reasons, then the surface shall be high-pressure water blasted, or wet sand-blasted to achieve the necessary effect. When acid-etching is completed, all surfaces shall be waterblasted or high pressure water-washed and allowed to dry.

3.2 Grinding:

Where required, grinding using a concrete floor grinder shall be used on the concrete surface. This removes any surface imperfections and ensure a strong adhesion between the **Epistixx** and the concrete.

3.3 Treatment of Surface Defects:

Any defects shall be filled with either an **Epistixx** mortar or a **Chevacryl Admix** gauged sand-cement mortar, depending on size. The filler shall be finished flush and allowed to cure prior to coating application.

3.4 Expansion Joints:

All movement/expansion joints and saw-cut construction joints shall be correctly primed and sealed using **Dymonic 1000**. Such joints shall **not** be overcoated unless expressly agreed with Equus, as the manufacturer, and shall generally be sealed **after** application of the floor coating system.

4.0 COATING APPLICATION:

4.1 Primer:

All surfaces to be coated shall receive one (1) coat of **Chevaline Epistixx Primer**, mixed and diluted up to 40% for easy application by brush, roller or soft broom at a spreading rate of 8-10 sqm/litre. Allow to dry overnight.

4.2 Bodycoat:

All primed surfaces shall receive one (1) coat of **Chevaline Epistixx Rapid NS**, mixed and diluted up to 10% as required for easy application by roller or conventional spray at a spreading rate of 5-6 sqm/litre. Allow to dry overnight.

4.3 Topcoat:

All bodycoated surfaces shall receive one (1) coat of **Chevaline Epistixx Rapid NS**, mixed and diluted up to 10% as required for easy application by roller or conventional spray at a spreading rate of 5-6 sqm/litre. Allow to cure at least 7 days before allowing other than foot traffic on the surface.

4.4 Notes:

.1 Service Lane Markings:

Service lane markings shall be applied using either **Chevaline Epistixx Rapid Topcoat** or **Chevaline Colourcure** in the appropriate colour. Spreading rate will be 6-8 sqm/litre and markings shall be neatly masked to give a 'crisp' edge.

.2 Open-Texture Concrete:

Open-textured concrete surfaces may require an additional filling coat of **Chevaline Epistixx Primer** before the bodycoat is applied.

5.0 GENERAL NOTES:

5.1 Colour:

The colour of both coats of **Chevaline Epistix Rapid NS** shall be the same in any area.

5.2 Spreading Rates:

The spreading rates detailed in this specification give film builds which are the minimum consistent with satisfactory performance, and shall be maintained throughout.

5.3 Sealant Joints:

Sealant Joints shall be generally filled **after** application of the coating system, and shall **not** be overcoated. Care shall be taken to avoid undue contamination of the joint during coating operations.

6.0 MAINTENANCE:

6.1 Maintenance:

This system can be damaged by sharp impact or heavy abrasion. The existing coating can be topcoated with **Chevaline Epistix** as a recoat procedure after simple surface preparation.

We would recommend that any mechanical damage to the coating be repaired/touched up on an annual basis, so as to minimise any detrimental effect on the sound balance of the coating system.

6.2 Warranty:

The **Equus Chevaline Epistix Rapid NS** floor coating system described in this specification may be warranted for a period of up to two (2) to five (5) years, provided that:

- (a) All work is carried out by an Equus Certified Applicator.
- (b) All work is carried out in accordance with this specification, or any amendments or additions thereto made by the Manufacturer.
- (c) The warranty does not cover cracking to the system caused by substrate movement.

The warranty period shall be determined based on the specific application and intended end use. This shall be confirmed with Equus prior to commencement of work.

The warranty is provided to the client by the Equus Certified 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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