

Standard Specification for the application of Traxx SL Flooring System to concrete surfaces.

Project:
Prepared for:
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1.0 PREAMBLE:

This specification is for the application of the **Traxx SL Flooring System**. The system is self levelling, chemical resistant and may be applied to sound stable concrete and cement plaster floor surfaces in both old and new construction. Such areas may include changing rooms, ablution blocks, showers, animal husbandry areas and light duty food preparation facilities.

The system provides a smooth, durable, hard and seamless floor surface, integrally bonded to the substrate during application. It is suitable for light industrial, commercial and institutional installations or as an alternative to heavy duty vinyl sheet flooring, where a completely seamless, chemical-resistant surface is required. Allowance is made within the system for application of **Colourcure 2 KFG NS** non-skid floor coating as an overlay where 'grip' is required under intermittent wet or greasy conditions.

The system has low odour during application and fast cure characteristics allowing for work to be done within limited time frames.

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 Mosskill Treatment: (If required)

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 Concrete Preparation:

The substrate must be dry, firm, solid and free of residues of laitance, dust, grease, oil and other contaminants. In case of serious oil contamination, acetylene flame cleaning, followed by mechanical treatment, is required. Never use solvents to clean as they tend to push fat/oil into concrete.

The concrete must have cured a minimum of 28 days. The cohesive strength of the concrete substrate must be, in average value, greater than 1.5 N/mm². This can be checked by carrying out a pull-off test in accordance with:

ASTM C1583: Standard Test Method for *Tensile* Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension – Pull-off Method.

The concrete substrate shall be prepared using suitable methods such as diamond grinding. Clean the surface with an industrial vacuum cleaner after treatment. The final prepared surface profile shall be CSP2 in accordance with:

ICRI Guideline No. 310.2R-1997: Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays and Concrete Repair.

On new concrete slabs, good water curing under polythene is recommended. Liquid- or spray-applied curing compounds shall not be used.

The humidity on the surface of the concrete must not exceed 4%. The substrate temperature should be at least 3°C above the dew point during application. Do not apply when atmospheric condensation is occurring or likely to occur before full cure is obtained.

Note: If doubt exists as to the correct preparation procedure, Equus Industries Ltd shall be contacted for an acceptable alternative methodology prior to application.

3.0 SURFACE PRETREATMENT:

3.1 Concrete Patching - Major Defects:

Concrete defects, voids or irregularities may be rectified using one of the following options:

- **Chevaline Epistixx Mortar: (Epoxy Mortar)**

Mix **Chevaline Epistixx Primer** as per manufacturer's instructions. Add the listed components in order in the ratios below to create the mortar:

- 1 litre of mixed **Chevaline Epistixx Primer**
- 0.4 litre of water and mix until homogenous consistency
- 1 kg of cement and,
- 2 kg of sand as a maximum.
- Add sufficient water to achieve the required mortar consistency.

Allow to cure 6 – 8 hours depending on prevailing weather conditions.

- **ASOCRET BIS 5/40: (Cementitious Mortar)**

Add the components listed in order in the ratios below to create the mortar:

- 2.8 - 3 litres of water placed in a clean bucket.
- 25kg **ASOCRET BIS 5/40** shall be slowly added **while** drill mixing continuously for a minimum of 3 minutes.
- 0.5-0.75 litres of water shall be further added and drill mixed to a lump free consistency.

Larger volumes shall be mixed onsite in a concrete mixer in accordance with the ratios above.

Note: The ASOCRET BIS 5/40 Mortar has a pot life of 60 minutes. Mix only what can be used within this timeframe. Allow to cure for 12 hours depending on prevailing weather conditions.

- **Equus Ready Rep: (Fast Curing Mortar):**
Mix **Equus Ready Rep** powder and **Equus Ready Rep** liquid in the required ratios in accordance with the Manufacturer's instructions.

Allow to cure for 45 – 60 minutes, depending on weather conditions.

3.2 Concrete Patching - Minor Defects:

All minor imperfections and discontinuities shall be filled flush using **Epar 801** epoxy after priming, which shall be allowed to cure overnight before overcoating.

3.3 Expansion/Construction Joints:

Shall be correctly prepared, primed and sealed using **Dymonic FC** applied in accordance with Manufacturer's Instructions.

Allowance shall be made to bring all expansion/construction joints through the finished **Traxx SL Flooring System** as part of the application.

3.4 Upstands and Coves: (if required)

The vertical faces of any upstands associated with the floor shall be flushed out with **Epar 801** epoxy mortar after priming.

4.0 TRAXX SL FLOORING SYSTEM APPLICATION:

4.1 Note: All surfaces shall be clean and dry at the time of coating application.

4.2 Primer:

Apply one (1) coat of **Chevaline Epistixx Primer**, mixed and diluted in accordance with Manufacturer's instructions, by roller or brush at 8 – 10 m² per litre to all surfaces to be coated. Allow to cure overnight.

4.3 Coving/Upstands:

All coves, corners and wall penetrations shall be reinforced by the application of a 200-250mm wide strip of 300 gsm fibreglass mat bedded in a brushed or rolled coat of **Equus Traxx SLT** applied at 2-3 sqm/litre. The mat shall be centred over the transition and shall be completely bedded into and wetted out by the **Traxx SLT**. The reinforced areas shall dry tack-free before overcoating is carried out, generally a minimum of 6 hours.

4.4 Bodycoat:

Apply one (1) coat of **Traxx SL** to all surfaces, mixed and diluted 10% with xylol, for application by roller at a spreading rate of 6 – 8 m² per litre for the mixed material. Allow to dry for a minimum of 6 hours and not more than 24 hours before application of the Topcoat

4.5 Topcoat:

Apply one (1) coat of **Traxx SL**, correctly mixed, by serrated trowel at 0.8 – 0.9 m² per litre. A porcupine roller shall be used for finishing, only where necessary. Allow to cure tack free for approximately 8 hours. Prevent draughts during curing.

4.6 Traxx 2 KFG NS Non-Skid Application:

All areas to receive a non-skid finish shall be clearly delineated by masking out and shall receive one (1) coat of **Traxx 2 KFG NS**, applied by brush or roller at a spreading rate of 7-8 m² per litre. Back roll to an even texture.

Note: The flooring system shall cure 24-48 hours before the Colourcure 2 KFG NS application is carried out.

5.0 SPECIFICATION NOTES:

5.1 Extent of Non-Slip Application:

Non-slip application should be confined to trafficable areas.

5.2 Colour:

Unless otherwise stipulated for a particular purpose, the colour of **Traxx SL** and **Colourcure 2 KFG NS** shall be the same.

5.3 Expansion/Construction Joints:

The **Traxx SL Flooring System** shall not be carried over any elastomeric sealant beads. All construction joints shall be correctly masked out and sealed with **Dymonic FC**, working in strict accordance with the Manufacturer's procedures.

6.0 MAINTENANCE AND WARRANTY:

6.1 Maintenance:

The **Traxx SL Flooring System** can be cleaned at any time with mild detergent washing. If re-topcoating is necessary, this can be carried out using **Colourcure 2 KFG Topcoat** after thorough surface cleaning. The manufacturer should be consulted as to surface preparation at that time.

Normal vinyl sheet flooring maintenance base/polish systems may be used over smooth finish **Traxx SL** and is recommended for commercial dry service areas.

6.2 Warranty:

The **Traxx SL** system for this application may be warranted as to film integrity for a period of up to 24 months from the date the application is completed.

Such a warranty is issued by the Certified Equus Applicator carrying out the work, and is backed by the Manufacturer as to the suitability for use of the material supplied, provided that:

- .1 All specified work is carried out by a Certified Equus Applicator.
- .2 All work is carried out in accordance with this specification or any written amendments thereto issued by the manufacturer.
- .3 A yearly inspection of the floor is carried out and any damaged areas repaired.
- .4 Special conditions may be applied where service conditions involve severe mechanical abrasion / impact or chemical spillage or both.
- .5 The warranty does not cover cracking to the system caused by substrate movement.
- .6 The warranty does not cover adhesion problems caused by moisture from below the **Traxx SL Flooring System**.

The area is subject to usage conditions described to **Equus Industries Ltd.** and the Approved Applicator at the time the work is done, and those conditions remain for the term of the Warranty.

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