

Ultra Shield XL

Flooring system for Polished Concrete

FLOORING SYSTEM OVERVIEW:

The following specification outlines a detailed method statement to produce a high quality **Ultra Shield XL** polished concrete floor.

The following specification outlines the required mechanical services, disciplines & equipment required to achieve the correct finish of the concrete surface prior to the application of the surface hardeners and sealer to achieve the desired finish.

This brief requires the contractor to prepare a sample area onsite to be reviewed and accepted by all parties based on aesthetic requirements. In addition to this the samples are to be subjected to a "Slip Resistance" pendulum test as detailed in the Australian Standards Handbook, "An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials HB 197:1999". This test will be the bench mark for the project and it is the responsibility of the contractor to ensure the sample passes or meets the required standard before proceeding with the rest of the project.

SPECIFICATIONS:

1. Concrete Floor:

1.1 The Concrete

The final appearance of an **Ultra Shield XL Flooring System** is dependent on the quality of the concrete design mix and placement thereof. The concrete used as the base of the **Ultra Shield XL Flooring System** shall comply with the requirements of AS1379 "The specification and supply of concrete".

The concrete shall reach strength in accordance with S32 or S40 and be supplied at a slump 80mm +/-15.

Concrete Placement

All surfaces are to be uniformly finished using conventional and consistent good concreting practice.

The depth of the concrete shall be in accordance with the engineering specification.

Screeding, compacting, floating and trowelling shall be carried out to ensure the concrete fills all voids so as to produce a uniform placement evident after the grinding/mechanical process.

The concrete surface is to be cured as soon as is practicable after concrete placement. This is best achieved using a curing compound which is compliant with AS3799 – 1998.

2. Application/installation of an Ultra Shield XL Flooring System:

The correct installation of the **Ultra Shield XL Flooring System** requires the following grinding and sealing application.

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SPECIFICATIONS: (continued)

Step 1: Carry out a floor grind to expose the required level of aggregate transparency using a 20 metal bond diamond cut. Repeat this process using a 60 metal bond diamond cut followed by a 120 metal bond diamond cut.

Step 2: Grout the floor using a polymer/cement (pigment if required) mixture to fill all holes or surface chips. Once grouting is complete and dry, remove excess material by grinding using a 120 Diamond cut.

Step 3: Once all excess grout, dust and grind residue is removed from the floor surface, apply **Dura Shield** or **Dura Shield L-P** floor densifier in accordance with manufacturer's instructions. Allow to dry overnight. (Refer to the relevant Technical Data Sheet). Once the **Dura Shield** product has cured, grind the concrete surface using a 120 metal bond diamond cut to ensure all excess **Dura Shield** product is removed.

Step 4: Grind the floor using 50 grit resin bond diamonds. Then repeat the process using 100 grit, 200, 800 and 3000 grit resin bond diamonds.

Step 5: Apply 2 coats of **Pen Shield Ultra** to the floor surface in accordance with manufacturer's instructions, allow to cure overnight (Refer to relevant Technical Data Sheets).

Step 6: Buff the floor surface using 3000 grit resin bond diamonds to reach desired finish.

PLEASE NOTE:

- The above specification should be read in conjunction with the manufacturer's instructions as outlined in the relevant and latest Technical Data Sheets.

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