



Specification

Ultra Shield flooring
system for Polished
Concrete

Flooring System Overview:

The following specification outlines a detailed method statement to produce a high quality **Ultra Shield** 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 should be subjected to a “Slip Resistance” pendulum test as detailed in the Australian Standards Handbook, “Guide to the specification and testing of Slip Resistance of Pedestrian Surface, SA HB 198:2014, 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.

Specification:

1. Concrete Floor:

1.1 The Concrete

The final appearance of an **Ultra Shield 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 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.

2.0 Application/installation of an Ultra Shield flooring system:

The correct installation of the **Ultra Shield flooring system** requires the following grinding and sealing application.

- Step 1:** Carry out a floor grind to expose the required level of aggregate transparency using a 30/40 metal bond diamond cut or similar. 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:** Apply 2 - 3 coats of **Poly Shield WB** at an application rate of 8 -10m²/litre to achieve the desired result.
Allow to cure overnight (Refer to relevant Technical Data Sheets).

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.