



## CONCRETE SPECIFICATIONS

### GENERAL

This flooring specification sets out the required work to mechanically polish concrete floors to achieve the best quality finish. This specification has been produced by Geo Polished Concrete and is only applicable to the proprietary methods, techniques and agents used to achieve the specification. The methods and warranties contained in this specification cannot be associated with any other system, process or contractor other than Geo Polished Concrete.

### CONCRETE REQUIREMENTS

- Premixed must conform to Australian Standard 1379. Minimum strength requirements shall be based upon specifications for the nature of the work. All structures shall be designed in accordance with Australian Standard 3600 – Concrete Structures.
- Premixed concrete will be required to have an Australian Standard slump test conducted. For a polished concrete floor concrete should be minimum 32 MPA  
Concrete that is supplied should have a slump of no greater than 75-80mm.
- Concrete will be placed in accordance to NATSPEC Standard Class A where a maximum deviation from a 3-m straight edge is 3mm. Floor flatness will be determined by using a Profilograph and will achieve a FF reading of no less than 50 and a FL reading of no greater than 30. Concrete will be finished in a trowelled manner.

### MATERIALS

- GM 3000 is a proprietary latex based product that is mechanically fused into the floor to minimise surface imperfections, micro cracking and shrinkage cracks. GM3000 also enhances the stain resistance of the floor.
- Hiperhard is a proprietary water based silicate which reacts with calcium hydroxide creating a crystalline microstructure in the surface layer of the concrete which greatly increases the abrasion resistance of the concrete floor.
- Worx+ TDISE (Totally Defend Impregnating Enhancer) is a proprietary impregnator which penetrates the floor. Worx+ TDISE greatly increases the stain resistance properties of the finished floor.

### EQUIPMENT

- PG 820 / 680 : A PG 820 / 680 dual drive planetary grinding machine will be used to ensure consistent finishes and high productivity rates.
- DC5500 Dust Extractor: DC500 Dust Extractor is used to remove the concrete dust from the surface of the concrete during grinding.