

## FLOORING SPECIFICATION MINIMAL EXPOSURE, HIGH GLOSS FINISH

### GENERAL

This flooring specification sets out the required work to mechanically polish concrete floors to achieve a MINIMAL EXPOSURE, HIGH GLOSS finish. This specification has been produced by Pro Grind Australia 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 Pro Grind Australia.

### 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. 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 straightedge 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. Refer to Pro Grind Australia's concrete specification for details.

### MATERIALS

- PGA Fusion. Fusion is a proprietary latex based product that is mechanically fused into the floor to minimise surface imperfections, micro cracking and shrinkage cracks. Fusion also enhances the stain resistance of the floor.
- PGA Reactor. Reactor 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.
- PGA Resistor. Resistor is a proprietary impregnator which penetrates the floor. Resistor greatly increases the stain resistance properties of the finished floor.
- PGA Maintainer. Maintainer is a proprietary maintenance system which will ensure long lasting shine of the floor. Maintainer can also restore areas of floor that may become damaged by acidic based stains such as Red Wine.

### EQUIPMENT

- PG 820 / 680 / 530. A PG 820 / 680 / 530 dual drive planetary grinding machine will be used to ensure consistent finishes and high productivity rates.
- FM5500 Dust Extractor. FM5500 Dust Extractor is used to remove the concrete dust from the surface of the concrete during grinding. Airborne dust test reports are available upon request.



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### EXECUTION

Before commencement of works a site inspection will be conducted to assess the hardness and condition of the concrete surface. New concrete will require a minimum hardness of 25mpa before works can commence. If it is determined that the concrete has not been completed in accordance with the specification or the Australian Standard, Pro Grind Australia will advise on the best course of action to achieve the specification and best result.

### MINIMAL EXPOSURE

- Grind the floor using 60 grit diamonds to refine the surface and expose areas of aggregate.
- Saturate the floor with water and whilst still moist apply Fusion to the surface of the concrete. Mechanically work Fusion into the floor using 120 grit metal bond diamonds.
- Liberally apply Reactor to surface in an even manner and keep wet for a minimum of 20 minutes. Allow to dry and cure for a minimum of 6 hours.
- Remove excess cured Reactor using a 50 grit resin polishing pad.
- Re-apply Reactor and work into surface with a 100 grit resin polishing pad.
- Re-apply Reactor and work into surface with a 200 grit resin polishing pad.
- Complete polishing steps 400, 800, 1500 and 3000 or until a gloss level in excess of 60 points has been achieved over the entire surface. Gloss level to be measured using a 60\* NOVO-GLOSS LITE from RHOPOINT Instruments.
- Apply Resistor to finished areas and buff to remove any excess residue.

### WARRANTY

Pro Grind Australia will warrant the owner with a 7 year limited warranty (refer to our full warranty document) from the date of practical completion of the works. Pro Grind Australia shall warrant to the owner that the surface will remain dustproof and remain hardened provided Pro Grind Australia's proprietary Maintainer system has been used and maintenance scheduled adhered too.

For any enquiries please contact Pro Grind Australia on 1300 763 666.

