System recommendation
SRO942 – Levelling Internal CFC Sheeted Floors
Resilient Floor Coverings

This recommendation is regarding the levelling of standard CFC (Compressed Fibre Sheet) internal flooring to receive resilient (e.g. vinyl) floor coverings where the **sheeting is joined together using an approved (e.g. ARDEX RA 88 two part epoxy adhesive)**. The recommended systems in this document are for unsealed sheets such as the James Hardie Hardipanel; the CSR Cemintel and the BGC Compressed Fibre Cement sheets. *The 22mm thick Scyon Secura floor sheeting can be used although the system is qualified with regard to priming and potential cracking where the levelling cement is over the joints. This system is described in **ARDEX SRO943**.*
These recommendations **do not apply** to the following;

- Thin (6mm) fibre cement underlay sheets that are fixed over timber floors prior to tiling.
- Light weight, 'sealed' sheet where the joints between sheets may/may not be filled with a flexible sealant.
- Any form of sheeting based on Magnesia; Magnesium Oxychloride or Oxysulphate cements.

PREPARATION

The sheet installation must be soundly secured to the internal floor structural framing that has been designed to support the anticipated loads that will be placed upon the floor. All sheet butt joints shall be supported by joists/ battens and firmly secured to allow no movement.

All sheet surfaces shall be free of all contaminants (dust, paint, waxy/oily residues and the like). Prepare the surface mechanically (by progress, drum or belt sander) to remove contaminants and achieve a roughened surface. Vacuum to remove all dust.

PRIMING

The prepared surface may be primed with any of the following;

- **ARDEX P 82** two part primer applied in accordance with the instructions. Let dry (minimum 3 hours) to clear film.
- **ARDEX P 51** diluted 1:2 with clean water and let dry. Drying time can vary as the low surface porosity of the CFC sheet can delay drying.
- **ARDEX P 9** One part primer applied in accordance with the instructions. Let dry for at least 20 minutes at 23°C and 50% relative humidity

Regardless of which primer is used, the primed surface must be dry prior to application of the levelling cement.

LEVELLING

The following ARDEX levelling cements may be used over the primed CFC sheets.

- **ARDEX K 15 Microtec** (20kg bag) mixed with 1.6 litres of **ARDEX E 25** liquid additive and 4 litres of water.

- **ARDEX K 12** (20kg bag) mixed with 1.6 litres of **ARDEX E 25** liquid additive and 4 litres water.
- **ARDEX Arditex NA** two part system mixed in accordance with the product instructions.

All levelling cements may be applied (when the installation temperature and substrate temperature are 15°C or more) from a minimum of 3mm thickness. Where the levelling cement will be in excess of 10mm, the **ARDEX 2-5mm** aggregate may be included in the mix.

Allow 24 hours curing time at 20°C and 48 hours curing time at 15°C before applying resilient floor coverings.

FLOOR COVERING ADHESIVES

Once the ARDEX levelling systems have set and dried, minor surface imperfections in the levelled surface can be smoothed using the **ARDEX Feather Finish** (maximum 3mm thick). Carpet and resilient floor coverings can be installed using the following NEXUS Adhesives:

- For sheet vinyl coverings, use **NEXUS 880** High Performance Vinyl Sheet Adhesive.
- For vinyl plank use **NEXUS 880** or **NEXUS 870** Vinyl Plank Adhesive.
- For carpet tile use **NEXUS 840** Pressure Sensitive Adhesive.

All ARDEX products and NEXUS adhesives shall be mixed and used in accordance with the product data sheets. ARDEX Technical Bulletin TB102 relates to the addition of aggregate to the levelling cements and may provide more details than this document.

Disclaimer:
The recommendation selected is based upon questions answered on the ARDEX Australia website. This recommendation is designed as a general application for your described situation and should not be considered site specific documentation for general distribution. Always consult the latest relevant ARDEX Technical Bulletins and information on the product packaging and/or product data sheets (available on the ARDEX Website). Australian and other relevant standards should be followed during installation. If you have any further questions or would like further clarification please contact the ARDEX Technical Services Hotline on 1800 224 070 (9am to 5pm Monday to Friday).