



SRO943 Levelling Internal Floors constructed from James Hardie Scyon™ Secura™ Sheeting

SCOPE

This recommendation is based upon **ARDEX Technical Bulletin TB016** where mesh reinforcement is used with levelling underlayments for the installation of resilient (e.g. Vinyl or Linoleum) floor finishes and/or carpet over T&G timber flooring. It applies only to installations of the James Hardie **Scyon™ Secura™ 22mm floor sheeting to dry internal floors**. As the Scyon™ floor sheeting is not bonded together and may include flexible sealants in the sheet end joints and no sealant in the sheet side joints; any cracking of the relatively rigid levelling underlayment is not included in the underlayment product warranty.

PREPARATION

The Scyon™ sheeting shall be installed as per the sheet manufacturers' instructions with all fixing screws finishing flush with the sheet surface. All surfaces shall be clean and dry with all contaminants removed.

Note: Normal mechanical methods (such as grinding) of preparation for the application of levelling cements cannot be used as the sealed surface of the Scyon sheet may be damaged although Light sanding may be possible in some instances to remove accumulated dirt.

Deflection of the floor shall be within the limits determined by the code for fumed construction, i.e. not more than given by "Span divided by 360" where span is the distance between the floor joists and/or bearers.

PRIMING

The primer shall be the [ARDEX WPM 300 Hydrepoxy](#) applied in 2 coats at not more than 3 sqm per litre per coat and allowing at least 4 hours drying between coats. As the top coat is applied, **ARDEX Primer Sand** is broadcast over the wet prime coat to achieve an evenly distributed coverage over a least 90% of the wet surface. Leave to dry (approx. 24 hours) and then brush/vacuum to remove any loose sand prior to installation of the levelling underlayment.

An alternate primer is the [ARDEX WPM 368](#) one part acrylic copolymer primer with included mechanical key, applied (brush, roller or spray) at no more than 3 sqm per litre and let dry for 24 hours prior to application of the levelling cement underlayment.

MESH INSTALLATION

Staple or spot fix with a rigid adhesive (e.g. [ARDEX RA 88](#) Epoxy) the approved mesh over all sheet joints. There are 2 types available:-

- Type 1 is a rigid galvanised, diamond metal lath with 15mm apertures such as used by renders.
- Type 2 is an alkali resistant "E-glass" fiberglass matting with 10mm apertures and 2x 0.75mm thick fibres.



Once the mesh has been installed, the **ARDEX** Levelling Cement underlayment can be applied directly to sanded surface. The following systems can be applied:-

System 1

- [ARDEX K 15](#) mixed in the ratio of 20kg powder to 1.6 litres of [ARDEX E 25 additive](#) and 4 litres of water.

System 2

- [ARDEX Ardite NA](#) two part system mixed in accordance with the product data sheet.

System 3

- [ARDEX K 55](#) mixed in the ratio of 20kg powder to 5.25 Litres of water.

The mixed levellers are applied to a minimum 6mm thickness. The [ARDEX K 15](#) may be mixed with aggregate where the thickness is to be in excess of 10mm.

Once the levelling cements have dried for the recommended periods, the flooring finishes may be applied.

For resilient flooring, the following ARDEX adhesives may be used;

- [ARDEX AF 178](#) for sheet flooring and VCT (Vinyl Composite Tile)
- [ARDEX AF 142](#) for vinyl planks

For Linoleum;

- Use [ARDEX AF 748](#)

For textile finishes;

- Use [ARDEX AF 266](#) or [ARDEX AF 236](#) for sheet carpet
- Use [ARDEX AF 236](#) for PVC or vinyl backed carpet tiles and carpet underlay.

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).