



## SRO918 – TILING ON SHEET MEMBRANES - Internal Walls

### SCOPE

This recommendation is regarding the adhesive fixing of tiles to the **ARDEX Weldtec** ([ARDEX WPM 750](#) / [ARDEX WPM 1000](#)) waterproofing membrane system that has been installed on internal wet area walls.

### PREPARATION

The [ARDEX WPM 750](#) / [ARDEX WPM 1000](#) Weldtec waterproofing membrane has been installed on structurally sound substrates in accordance with ARDEX' installation instructions and to the requirements of AS3740. Ensure all sheet overlaps are fully welded together. The surface of the sheet membrane must be clean and dry. Priming is not required when adhesive fixing tiles to this sheet membrane.

### TILING

ARDEX Technical Bulletins **TB001** & **TB148** provide guidelines to the safe load carrying capacity when adhesive fixing tiles to wall substrates. As a general rule, where the tiles are to be fixed more than 3m above ground and/or weigh more than 32kg/m<sup>2</sup>, additional mechanical support will be required.

Tiles should be fixed in accordance with Australian Standard AS 3958. The type and size of the tiles determines the selection of the trowel. As a general guide, use at least a 6 x 6 x 6mm notch trowel for wall tiling. Achieve minimum 90% coverage for wet areas. The tiles must be pressed firmly into the freshly combed mortar bed to ensure good contact with the mortar. Slide the tile at right angles to the notch pattern to ensure maximum coverage on the back of the tile. Tiles with ribbed or keyed back profiles should also be back-buttered to ensure complete coverage. Tiles greater than 400 x 400 mm should be back-buttered. Lift a tile from time to time to check appropriate coverage and that there are no voids beneath the tile. Any surplus adhesive must be removed from the surface of the tile and joints, before the adhesive sets. Do not spot fix.



Suitable ARDEX adhesives;

	<b>Good</b>	<b>Better</b>	<b>Best</b>
<b>Porous Bodied Tiles</b> Terracotta/Glazed ceramic	X10 ; X17	X18 ; X77	X56 ; X77+E90
<b>Glazed Mosaics</b>	X17 ; X18	X52 ; X77	X56 ; X77+E90
<b>Dense Bodied Tiles</b> Vitrified/ porcelain	X17 ; X18	X52 ; X77	X56 ; X77+E90
<b>Natural Stone Tiles</b> (excluding moisture sensitive stone)	X17 ; X18	X52 ; X77	X56 ; X77+E90
<b>Natural Stone tiles</b> Moisture sensitive	WA100	Please refer to ARDEX Technical Bulletin TB010	

Note : As an optional add-on, you can use [ARDEX E 90](#) with X77, X18 and X10 as detailed in **TB231**. This will greatly improve their performance and longevity.

#### **GROUTING**

Once the adhesive has set, the tiles may be grouted with one of the following ARDEX grouts.

- [ARDEX FG 8](#) sanded grout for joints from 1 to 8mm is a general purpose grout available in a large range of colours.
- [ARDEX FS-DD](#) un-sanded grout for joints 1 to 4mm. This is recommended for polished tiles with rectified edges as the grout has a smooth finish and is available in a range of colours.
- [ARDEX WJ 50](#) sanded grout for joints 5 to 50mm.
- [ARDEX WA](#) Epoxy 2 part grout available in black, grey or white for installations where high standards of hygiene and/or chemical resistance is required.
- [ARDEX EG-15](#) Epoxy 3 part grout for installations where high standards of hygiene and/or chemical resistance are required. It is available in 8 colours and is suitable for grout widths ranging from 1.5 to 15mm.

**Note:** ARDEX cement based grouts may be mixed with [ARDEX Grout Booster](#) for increased performance such as resistance to water penetration, reduced potential for efflorescence, greater strength and flexibility.



## **MOVEMENT JOINTS**

Movement joints are to be included in the new tile finish in accordance with the recommendations of AS3958. These joints are installed (but not limited to) in the following locations:

- Over all existing movement joints in the substrate
- At all internal corners/changes in direction in the plane of the substrate
- Along all perimeters where the tiles butt against walls and/or built in furniture
- Around all penetrations through the tile finish

Movement joints should be at least 6mm wide and are filled with a flexible sealant such as the [ARDEX SE](#) silicone or [ARDEX ST](#) neutral cure silicone for natural stone. Compressible backer rods may be required in deeper joints to maintain the recommended sealant thickness at half the joint width.

*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).*