FLOORING SYSTEMS

Generic Scope of Works - Forbo Sure Step and Safe Step Sheet Vinyls

1) Subfloor Preparation - New Concrete Floors
2) Subfloor Preparation – Preparing Existing Concrete / Removal of Existing Floorcoverings
3) Subfloor Preparation – Installing Over Existing Ceramic Tile Floors (ARDEX SYSTEM)
4) Installation of Forbo Safe Step Aqua – Flooring
5) Installation of Forbo Safe Step Aqua - Coving

1. Subfloor Preparation – New Concrete Floor

i) Ensure that the concrete floor is smooth, dry and level.

ii) Clear substrate of all debris, clean off surface contamination and carry out surface repairs using cementitious patching or self-smoothing compounds.

iii) Carefully feather out at perimeters of repaired areas. Grind level, and then vacuum to remove dust.

iv) Check for moisture and alkaline content; Australian Standard AS 1884 - 2012 states that concrete subfloors shall be considered sufficiently dry for the installation of resilient floor coverings if the moisture content of the subfloor does not exceed **75%** as tested using the in situ probe test in accordance with ASTM F2170 or **70%** as tested using the surface mounted insulated hood test in accordance with ASTM F2420. Three tests shall be performed for the first 100 m2 and at least one additional test for each additional 100 m2 and other recommended positions in accordance with ASTM F2420. Before subfloor preparation is performed and a floor covering is laid on a concrete subfloor the concrete surface pH shall be determined as described in AS 1884 – 2012. Allowable surface pH shall be as specified by the adhesive manufacturer but typically should be in the range 9 to 10% pH.

v) Should the Relative Humidity (RH) reading exceed 75% an approved moisture barrier must be applied to the subfloor. (e.g. ARDEX WPM300)

2. Subfloor Preparation - Removal of Existing Floor Coverings

i) Remove existing floor coverings; mechanical remove adhesive and other surface contaminants to make good.

ii) Carry out repairs using cementitious patching or self-smoothing compounds. Carefully feather out at perimeters of repaired areas. Grind level, and then vacuum to remove dust.

iii) Ensure moisture and alkaline test readings of concrete floor are within the recommendations of AS 1884 - 2012. Should the Relative Humidity (RH) reading exceed 75% an approved moisture barrier must be used (e.g. ARDEX WPM300).

3. Subfloor Preparation – Installing over Existing Ceramic Tile Floors ARDEX SYSTEM – See attached Technical Bulletin TB017 for further details.

Successful topping systems over ceramic tiles or terrazzo rely on the integrity and bond of the original tiles to the substrate. Any loose or drummy tiles must be removed, the surface cleaned, and then filled with a levelling cement plus aggregate mixture, or ARDEX A45 repair mortar.

i) Remove all grease, oil, polish and any other contaminant by means of a filmless commercial grade detergents/degreaser used with an automatic scrubbing machine. Flush away all residues with copious amounts of clean water. Do not use solvents as they are toxic, flammable and can create problems with potential chemical attack damage to the ceramic tile surface.

ii) Allow the toiles to dry completely.

iii) Mechanically roughen the surface of the ceramic tile to remove any glaze by diamond grinding or sanding with a Carborundum paper, grit size 24-40 grit.

iv) Vacuum to remove all dust.

v) Prime the prepared ceramic tiles surface with ARDEX P82 primer as per the product datasheet.

vi) **Fast Track Method 1:** The cement-based self-smoothing underlayment shall be ARDEX K55. Installation of the vinyl floor coverings is possible 60-70 minutes after the compound has dried.

vii) ARDEX A55 does not require addition of ARDEX E25 admix.

viii) Install as per ARDEX product datasheet instructions. Minimum installation thickness 2 – 3 mm.

ix) Always install a test area to determine the suitability of product for intended use.

x) **Fast Track Method 2.** ARDEX FEATHER FINISH can be direct applied to the prepared tiles with a metal trowel. *A coating sufficiently thick must be applied to fill the grout lines.* Note that thin scratch coats do not provide a porous surface and this needs to be considered when using water based vinyl adhesives.

4. Safe Step Aqua Sheet Vinyl Flooring, Installation Recommendations

i) Subfloor preparation and installation of Step safety vinyl must be carried out in accordance with AS 1884 – 2012 "Resilient Sheet and Tiles – Laying and Maintenance Practices"

ii) Acclimatise Safe Step Aqua vinyl flooring for 24 hours on site and ensure enough material for coving requirements.

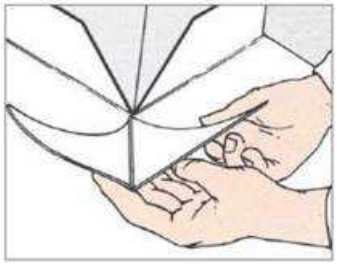
iii) Lay material out and ensure there is enough material for coving requirements before cutting.

iv) Direction of sheet installation – Safe Step Aqua sheets must be **reversed installed**.

v) Adhesive - Due to possible hosing down, wet maintenance and wet foot traffic on the floorcovering area Forbo **highly recommend using a 2 part epoxy adhesive for the entire** vinyl floor covering installation including around gatic type floor waste. Only spread sufficient adhesive that can be covered within the specified adhesive open time. (Recommended 2 part epoxy adhesive – Ardex AF 545 heavy Duty Epoxy)

Contact adhesive to be used in a 100 mm band around the floor waste and 20 mm into the floor waste. Also use contact adhesive for the vertical cove application.





vi) Safe Step should be rolled with a 3 wheeled 45 kg roller as soon as possible after laying and within the open time of the adhesive – the open time of the adhesive will depend on site conditions and porosity of the subfloor.

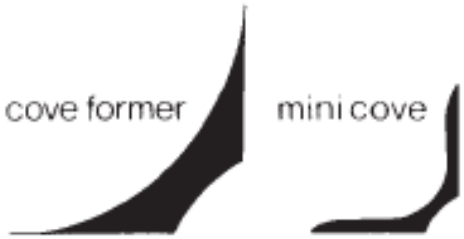
vii) Newly laid floors should be protected from heavy traffic for 24 hours after installation and from point loading and wheeled traffic for five days.

viii) Care must be taken when manoeuvring pallet jacks and other wheeled traffic over Safe Step Aqua flooring due to the high surface grip and potential damage to the material.

ix) Clean and maintain Safe Step Aqua flooring as per Forbo recommended cleaning and maintenance guide.

5. Safety Step Aqua Sheet Vinyl - COVING

Forbo Step ranges can be site form coved in the normal manner over a 20mm or 35mm cove former or Pencil coved (10 mm radius). **To protect the flooring at the junction of the floor and wall and for ease of cleaning, it is would recommend that a cove former is used.**

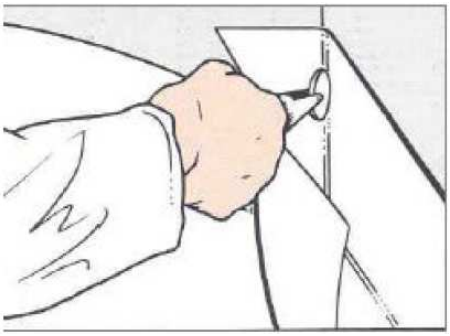


The following skirting details below show pencil cove (no cove former used) and all internal and external corners cut and heat welded at 45 degree angles. **Note:** All sheet joints must be heat welded.

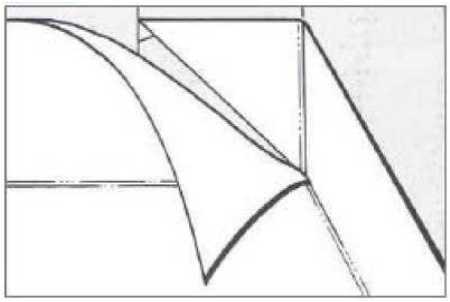
a) Internal Corners

i) Cut the floor covering at a 45 degree angle approximately 5mm off the floor to make future welding easier

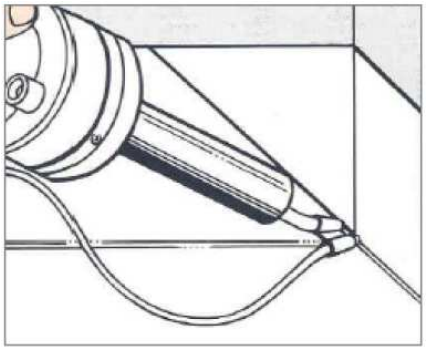
ii) Press the floor covering into the corner with a roller



iii) Cut the excess material to the 45 degree angle



iv) Grove and heat weld **ALL** seams

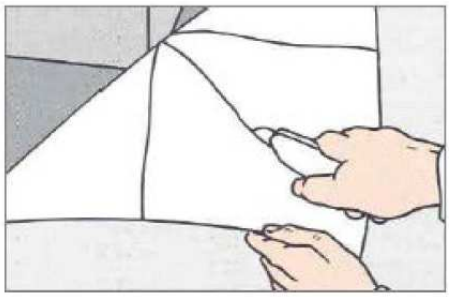


v) All exposed edges must be sealed with a sanitary sealant that is resistant to fungus and mould

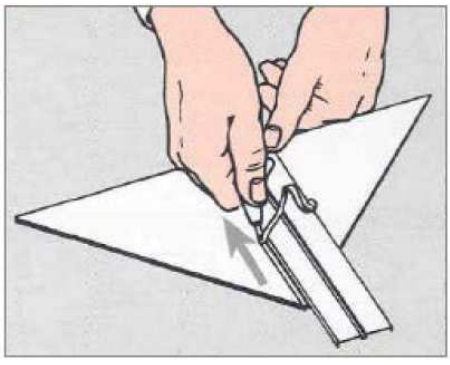
6. Safe Step Aqua Sheet Vinyl – COVING

b. External Corners

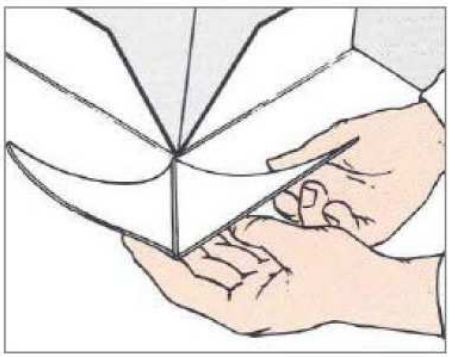
i) Fold the floor covering up to get 2 equal parts from each side of the wall. Cut in a line approximately 5mm off the floor, perpendicular to the fold. Fold up the floor covering against the wall. The gap must be filled in with an insert

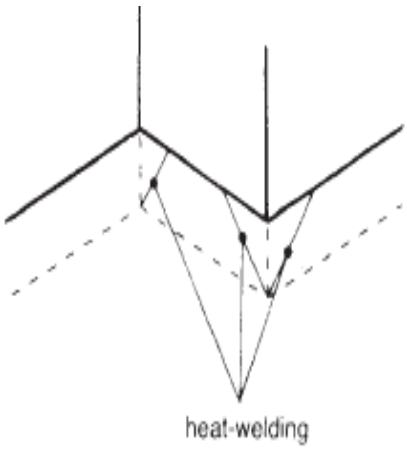


ii) To enable the material to bend more easily, the reverse side of the insert should be grooved to approximately half thickness of the material using a 'P' Type grooving tool.



iii) The filler is cut to the required height of the skirting





iv) All exposed edges must be sealed with a sanitary sealant that is resistant to fungus and mould.