

SPECIFICATION SHEET NO:

PSA
06

DESCRIPTION:

XL PU
2.00mm

DATE:

FEB
2023

ARCHITECTURAL SPECIFICATION / BOQ

SPECIFICATION:

Supply and install XL PU Group M flexible PVC sheet flooring in 1.5mm and 2.0mm, homogeneous and monolayer in construction, the flooring material shall conform fully with the requirements of EN 649/EN ISO 10581, in accordance with EN 649, the in-use classification must be at least 23/34/43, as defined in EN 685/EN ISO 10874, i.e., domestic areas with intense use; commercial areas with very heavy use; and light industrial areas with heavy use for the 2.0mm gauge. The in-use classification for the 1.5mm product must be at least 23/32/41, as defined in EN 685, in respect of flame spread, the flooring shall have been fully tested to EN 13501-1 and certified as having Class Bfl-S1, the flooring shall have been fully tested to ASTM E648 and certified as having passed with a Class 1 rating, making it suitable in institutional, commercial and public buildings, the product must have been fully tested for abrasion resistance to the Frick Taber test EN 660-2 and be in abrasion group M, as defined in EN 649, with regard to EN 13893 for slip resistance, the flooring shall be classified DS, making it suitable for use in areas which are predominantly dry, but with occasional spillage, with regards to EN ISO 10581 the product shall be classified Type II, this product does not accumulate static charges above 2kV and is classified as 'antistatic' when tested to EN 1815, for specialist applications where there is a requirement to dissipate the electrostatic charge, see the Polyflor ESD product ranges, the flooring must be available in 2.0 metre width, to minimise the number of joints, in respect of light fastness, the flooring shall have been fully tested to ISO 105-B02 Method 3 and obtain ≥ 6

Colour:

Code:

INSTALLATION: (PLEASE NOTE: ALWAYS USE COMPATIBLE PRODUCTS FROM ONE SUPPLIER)

All installation instructions (including images) are available in our Technical Manual.

RECEIPT & STORAGE

On receipt of rolls:

- > Check that colours correspond to those ordered, that quantities are correct and that there is no damage.
- > In particular, check that rolls are from one batch, if that was requested on the order.
- > On arrival at site, the rolls should be safely secured in an upright position; (2m widths only) and stored, together with the adhesive, at a minimum temperature of 18°C for at least 24 hours before laying.
- > Inflammable adhesives require special storage conditions. Contact the adhesive manufacturer or see current literature for details.
- > To achieve best results, site conditions should be as described in BS 8203 or prevailing local/national standards. A working temperature of between 18°C and 27°C is required for at least 48 hours prior to, and during, the installation period; and for 24 hours afterwards. Conditioning should be carried out in the same room or areas as the installation, to prevent thermally induced dimensional changes.

PRIOR TO INSTALLATION (UNDERFLOOR HEATING)

On installations where underfloor heating is used:

- > The system should be fully tested and commissioned prior to the flooring installation commencing.

SPECIALIST FLOORING & WALL PROTECTION PARTNER

Tel: 011 609 3500 | Email: marketing@polyflor.co.za | www.polyflor.co.za
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Poly Sales Africa (Pty) Ltd. trading as Polyflor South Africa. Company Registration 2004/012256/07

> Underfloor Heating systems should be switched off and be fully cooled for a minimum of 48 hours prior to the installation commencing. The system should remain off and fully cooled during the installation and for a minimum of 48 hours afterwards. It should then be slowly brought back up to the working temperature incrementally over several days.

> A maximum subfloor temperature; (at the adhesive line) of 27°C should never be exceeded. Specialist high temperature adhesives should be used in areas with underfloor heating, direct sunlight, and areas of high solar gain. Please refer to the Polyflor Approved Adhesive List or contact your adhesive manufacturer for more information.

PREPARATION OF WORK AREA

The work area should now be prepared to receive the sheet flooring.

> Ensure that all other trades have completed their work and removed all their equipment and materials.

> Remove all debris and vacuum the whole subfloor area.

> Check the condition of the subfloor and make good, as necessary.

> Stone or power grind any cementitious subfloor to remove any 'nibs' or ridges.

> Remove any surface contaminants, which may affect adhesion. Sweep or vacuum again prior to laying.

> If required by the contract, or if in doubt, check the moisture content of the subfloor and record the results and method used. Good lighting is essential.

> *It is important to note that commencement of work is deemed by many as acceptance of the site conditions as suitable for laying floor coverings.*

LAYOUT OF SHEET

> The architect may have provided a drawing showing the direction in which the material should be laid. In this case, lay the sheet as directed.

> Where the architect has left the direction to the discretion of the flooring contractor; at the tender stage show in which direction the material will be laid and state that your estimate is based on this.

> Always pay particular attention to where seams will fall, avoiding such occurrences as seams in the centre of doorways.

> If large windows are installed, minimise the effect of the joints by laying towards the window.

SLABBING THE SHEET

> Polyflor recommends that all Polyflor sheet flooring be rolled out face upward, taking care not to damage the surface, and cut approximately to size.

> Allowance of at least 75mm should be made at the ends for trimming in, the slabs should then be left overnight for 24 hours to condition at a minimum temperature of 18°C.

FITTING THE FIRST LENGTH

> Place the first sheet in position next to the wall with the outer edge approximately 15mm from the nearest point.

> Adjust the lie of the sheet so that the inner edge is parallel with the axis of the room.

> Depending upon the depth of the recesses, use either a bar scribe or a pair of scribes to trace the profile of the wall. The scribes should be set to allow for the deepest recess or rake of the wall. Holding the scribes vertically and square to the edge, trace the wall profile onto the face of the sheet. With this method, all irregularities of the wall will be accurately reproduced onto the surface of the sheet. If the scribed line is difficult to see due to the colour or decoration, rub suitably contrasting chalk dust into the line to highlight it.

- > Ease the sheet away from the wall and, using a hook blade trimming knife, cut off the excess material to the scribed line. Slide the sheet back against the wall and check the fit, making any minor adjustments, as necessary.
- > When satisfied that the fit on the first edge is correct, use a pencil to trace the opposite edge onto the subfloor.
- > In the centre of the room, draw a line on both the sheet and subfloor square to the main axis of the sheet.
- > Keeping the inner edge of the sheet on the A-B line, slide the sheet back to clear the wall at one end of the room.
- > Set the scribes to the distance now between lines C and D. Trace the end wall profile and cut to fit as described earlier.
- > Repeat for the other end of the sheet. Once completed, the whole sheet – when slid back into position – should fit the wall profiles exactly.

FITTING SUBSEQUENT LENGTHS

- > Place the second length parallel to the first length, with a minimum of 10mm overlap along the adjoining edges or overlap of seldedge.
- > On the opposite side, trace the edge along the whole length onto the subfloor. In the middle, draw a line C-D at right angles to the main axis, as previously described.
- > Using the longitudinal line as a guide, slide back the sheet from the end wall and fit as described previously.
- > Repeat for the opposite end.
- > Repeat the sequence for all remaining lengths.
- > On the final length, which abuts the opposite wall, fit as described for the first length.

ALIGNMENT OF DECORATION (HETEROGENEOUS RANGES ONLY)

This type of floor covering features a print layer with a regular, repeat decoration (e.g., wood plank). With wood effect designs:

- > To maximise the final appearance of the installation and to ensure the decorative effect is not lost, it is important that care is taken to align the decoration of each adjacent sheet.
- > The edge of the printed plank can be used in the lengthwise direction as a guide. The label and printed information on the backing of the sheet must be checked and the product reverse laid when instructed.

CUTTING IN THE SEAMS

Polyflor recommends that all Polyflor sheet floor coverings are welded.

Trimming off the factory edges and seam cutting is a prerequisite to enable successful grooving and welding.

ADHERING THE SHEET

Use of the correct adhesives is of paramount importance for the installation to be successful. Polyflor provide a comprehensive approved adhesive list available at marketing@polyflor.co.za or by contacting Polyflor on (011) 609 3500.

In areas subjected to direct sunlight or extremes/fluctuations in temperatures, Polyflor always recommends the use of an approved polyurethane, poxy or suitable high temperature adhesive. Polyflor provides this information only as guidance. The legal responsibility for the supply and performance is that of the adhesive manufacturer. Prior to adhering the sheet, it is important to read and understand the adhesive manufacturer's instructions, recommendations, and safety advice. You need to know the hazards and limitations of the adhesive, especially the open time.

- > Spread the adhesive using a suitable trowel to the manufacturer's recommendations ensuring that the correct notch size is maintained throughout the installation. If the notch shows signs of wear the trowel should be renewed immediately.
- > If pressure sensitive adhesive is used the resultant serrated adhesive edges should be flattened with a lambswool roller pre-wetted with adhesive.
- > Never spread more adhesive than can be laid within the open time. Polyflor does not recommend any method of adhesive application, such as spraying, which cannot guarantee the spread rate.
- > After each section has been laid, except for the perimeter, thoroughly roll the sheet in both directions with a 68kg articulated floor roller. Repeat for each section until the main field of sheet has been laid.
- > When spreading dispersion-based adhesives on impervious or non-porous bases; (including bases where a surface applied damp proof membrane or moisture vapour suppressant has been applied) it is important to apply a suitable smoothing compound of not less than 3mm thickness. Failure to apply the correct depth of smoothing compound can result in moisture becoming trapped between the sheet and the impervious or non-porous base. This can ultimately lead to failures in the adhesive bond and in some cases discolouration of the vinyl sheet products.
- > The smoothing underlayment or adhesive supplier will provide details on which product(s) within their range should be used to suit the end use application and subfloor construction, and where applicable details of which primer should be used.
- > Adhesive selection should be based on both the floor covering, substrate type and site conditions. Always select an adhesive from the Polyflor Approved Adhesive list. If in doubt about adhesive choice, please contact Polyflor.

Premature trafficking of newly laid floors

Early trafficking may disturb the adhesive bond and weaken it, resulting in the associated problems of tracking, indentation, debonding etc. After the sheet has been installed; only light foot traffic should be allowed for at least 24 hours. Furniture etc. should only be returned after this time. The material should be protected with hardboard or plywood for at least 48 hours if subject to heavy trafficking.

PATTERN TEMPLATE METHOD

Areas which call for a considerable amount of fitting around obstacles, or which are too confined to lay down a sheet for fitting by normal methods can be dealt with by templating the floor in felt paper.

- > Dry fit the area with felt paper, leaving a gap of 15mm to 20mm around obstructions and walls.
- > Draw around the fittings using a suitable measuring and marking device. Mark the template 'This Side Up'.
- > Place the sheet in a larger area with the face uppermost. Place the template on top ensuring the direction of decoration is correct. Secure the template firmly in position and mark the position of all obstacles using the template as a guide.
- > Using a sharp trimming knife, cut the sheet to the marked lines, and fit into position. Do not use the felt paper template as an underlay.

PREPARATION FOR SKIRTING PROFILE

- > Ensure that all surfaces are firm, dry, and free of dust, grease, and oil.
- > Fair faced brickwork or block work should have a skim coat applied, as this provides a smooth, firm surface of known porosity which will minimise adhesive usage and improve adhesion. Alternatively, 5.5mm thick plywood can be cut into appropriate width strips and then securely fixed to the block work to provide a smooth surface onto which the skirting can be fitted.
- > Surfaces may require priming prior to application.
- > All painted surfaces must be stripped back, and wire brushed to remove all traces of paint as this can impair adhesion.

SITE FORMED COVERED SKIRTINGS

Polyflor fully flexible flooring, in conjunction with the Polyflor Ejecta cove former range can be used to create site formed covered skirting to form a hygienic watertight finish.

- > Adhere the sections of cove former using an approved contact adhesive. Use a mitre-block to accurately cut internal and external corners and only adjust for length on straight cuts.
- > To prevent a difficult fit, and potential weak spot near doorways, cut away the back edge of the cove former on a taper for 150mm so that there is minimal cove former near the doorway. Heating the cove former will enable the shape to be formed but do not use a naked flame.

Fitting Ejecta capping strip

- > Mark the walls around the room to the height the coving will reach. Minimum 100mm or as directed.
- > Place the sheet to the walls and mark to the same height as previous. Using a straight edge and sharp knife, trim off the excess.
- > Pull back the sheet from the walls. Fit the capping strip to the wall with a Polyflor approved contact adhesive so that the top of the sheet will sit inside the cap.
- > Using the Polyflor approved contact adhesive, apply to the face of the cove former and up to the capping strip. Coat the back of the sheet with contact adhesive and leave both to dry.
- > When dry, push the sheet into place and tuck the top edge into the capping strip. Roll with a hand roller to ensure even contact.

Fitting with sit-on capping strip

- > Mark the walls around the room to the height the coving will reach. Minimum 100mm or as directed.
- > Apply a Polyflor approved contact adhesive to the face of the cove former and up to the marked line on the wall. Coat the back of the sheet with the contact adhesive and leave both to dry.
- > When dry, push the sheet into place and roll with a hand roller to ensure even contact.
- > Using a straight edge and sharp knife, trim off the excess back to the required height as described earlier.
- > Using a piece of capping strip, mark where the strip overlaps the wall and sheet. Apply a Polyflor approved contact adhesive between the lines and to the back of the capping strip. When dry, push into place.

FITTING TO CERAMIC WALL TILES

For the junction between site formed covered skirting and ceramic wall tiles, Polyflor Ejecta CT strip should be used. The flexible section is designed to accept ceramic tiles on one side and various gauges of material on the other.

- > The Polyflor CT strip should be adhered using a Polyflor approved contact adhesive.
- > The edge between the CT strip and the ceramic tiles should be grouted.
- > The Polyflor sheet should be fitted into the bottom edge of the CT strip and adhered to the wall using a contact adhesive as recommended by Polyflor. A thin bead of mastic sealant should be run along the underside edge of the CT strip and the Polyflor sheet.

FITTING OF AN EXTERNAL CORNER (Wrap around/butterfly method)

Welded external corners can be prone to damage from wheeled traffic. To prevent this, use the 'wrap around' method.

MAINTENANCE:

NOTE: NEVER USE A BLACK PAD TO SCRUB A PU COATED FLOOR

Post Installation & Periodic Cleaning

Step 1:

- All dust, sand and stones must be removed prior to scrubbing. This can be done with either a vacuum cleaner or by sweeping with disposable cloths such as Masslinn®.
- Scrub the floor using a solution of a neutral detergent such as Proclean diluted according to manufacturer's instructions, with a Low-Speed Scrubber fitted with a 3M Blue Cleaner Pad. For detail work, use an edge cleaning tool with blue pad.

Step 2:

- Vacuum the dirty Proclean solution from the floor with a Wet & Dry Vacuum Cleaner. The floor should be thoroughly rinsed with clean water to remove any remaining chemical residue.
- If no machine is available, remove the solution from the floor using a mop and mopping system. The water and mop must be changed frequently to remove as much chemical residue as possible from the floor.

Daily Maintenance:

1. Dust sweep with a disposable cloth system such as Masslinn® Tool and Masslinn® Cloths.
2. Spot mop wet sticky dirt with a double/single bucket mopping unit with the correct dilution of neutral detergent such as Proclean. For optimal results, make sure that the rinsing water is changed regularly.
3. For larger areas, wash the floor using a Nilfisk Automatic Scrubber-Drier, 3M Red Buffing Pad and low foam neutral detergent such as Proslip.

*The Green Eco Brilliance Diamond Pad polishes the floor using billions of microscopic diamonds, thereby creating a sheen.

- Apply Prostrip to floor – diluted 1 Litre to 10 Litres of water
- Allow at least ten minutes action time
- Scrub with slow speed machine, with blue 3M pad
- Remove polish and the like by scrubbing
- Vacuum / mop up the dirty water
- Rinse floor with clean water and a new un-used mop
- Once floor is completely stripped and rinsed, go back and check for any remaining polish. Re-strip these areas using the same procedure.
- Detail works – use maxi edge tool with black maxi pad to clean these areas
- Once floor is stripped to your satisfaction, rinse once again

We recommend that a professional maintenance product supplier be approached to determine the specific maintenance requirements for each application.

Industroclean who supply the Pro range of products can be contacted directly on (011) 801 4600.

Strip & Seal methodology

A full strip and seal can be conducted at least once a year if wear is showing.

STRIP

NB: It is important to ensure that no polish or stripper remains on the floor.

SEAL

- Apply three thin levelly coats of Proflor H with an applicator or Wonder waxer. Proflor H is a high-solids, hard floor sealer and is an excellent base coat.
- Drying time per coat is approximately 30 minutes
- After this is dry, apply two or three coats of Profinish
- The floor should be left for several hours to allow the floor sealer to dry properly and cure
- After approximately seven hours after the last coat has dried, buff the floor with a new red / pink (Eraser) pad on a high / Ultra speed polisher

- Polish extensively

Chemicals & Equipment

Proflor H – Sealer

- One 20L drum will cover 800m² per coat
- One 5L drum will cover 200m² per coat

Prostrip – Stripper

- One 20L drum will strip 800m²
- One 5L drum will strip 200m²

Profinish – Second Sealer for high shine

- One 20L drum will cover 800m² per coat
- One 5L drum will cover 200m²

Pro buff – Spray buff

- 20L

Proclean – Neutral cleaner

- 20L

- 5L

Procedure for a Matt/Satin finish

- Apply a minimum of two/three coats of Proflor HM matt sealer as per the manufacturer's instructions.

Procedure for a High Gloss/Shiny finish

- Apply a minimum of two/three coats of Proflor H and two coats of Profinish as per the manufacturer's instructions.



XL

HOMOGENEOUS



w = width l = length
NCS = Natural Color System LRV = Light Reflectance Value

Form	Color	Colors
Steel	2.0mm	24 - 48 colors
Tile	12.0mm	12 - 48 colors
Steel	1.5mm	4 - 48 colors



XL P_U

Attractive, high performance, heavy duty homogeneous sheet and tile floorcovering with a polyurethane surface treatment which provides an excellent foundation for an easy, ongoing maintenance regime. Featuring a duotone marbled decoration, XL PU is available in a broad palette of vibrant shades.

Demonstrating outstanding durability and abrasion resistance and available in a choice of gauges, XL PU is recommended for public, institutional and commercial buildings as well as hospitals, schools, laboratories and offices.



	Gauge	EN 428/ISO 24346	1.5mm 2.0mm
	Roll Size	EN 428/ISO 24341	2m x 27.5m = 55m ² 2m x 20m = 40m ²
	Tile Size	EN 428/ISO 24342	300mm x 300mm = 4.5m ² 608mm x 608mm = 5.7m ²
	Total Weight	EN 430/ISO 23997	2360g/m ² 3200g/m ²
	General Performance	EN 649/EN ISO 10581 ASTM F1913 ASTM F1700	Conforms Conforms Conforms
	Use Area	EN 685/ISO 10874	 1.5mm 2.0mm
	Reaction to Fire	EN 13501-1 ASTM E662* ASTM E84-05* CAN/ULC S102.2	Class Bfl-S1 +HFO Class 1 FSV < 300, SDI < 500 *1.5mm, 2.0mm 2.0mm
	Abrasion Resistance	EN 660-2	Group M
	Binder Content	EN ISO 10581	Type II
	Slip Resistance	EN 13893 DIN 51130	Class DS R9
	Residual Indentation	ASTM F970 (Modified) EN 433/ISO 24343-1	Static load 750psi ≤ 0.3mm
	Static Electrical Propensity	EN 1815	<2KV Classified as 'antistatic'
	Castor Chair (continuous use)	EN 425/ISO 4916	Suitable
	Maritime Usage	Marine Equipment Directive 2014/90/EU* SOLAS 74*	Conforms Conforms *2.0mm
	VOC Emissions	Indoor Air Comfort GOLD AgBB/ABG FloorScore Flooring M Classification*	Eurofins certified product Pass Certified Certified
	Responsible Sourcing	BES 6001	Excellent
	Environmentally Preferable Flooring - Polyflor XL PU* achieves a BRE Global Environmental A+ Rating (Certificate No: ENP 472) in major use areas such as education and healthcare and is GreenTag LCA Rate certified with GreenRate level A - Gold Plus. Generic EN 15804 Environmental Product Declaration (EPD) available on request. XL PU is 100% recyclable and contains 25% recycled material. Recyclable via the Recofloor scheme. Visit www.polyflor.com/sustainability .		
	Hygiene - All Polyflor commercial sheet vinyl ranges provide a continuous, impervious and hygienic flooring solution which can be confidently cleaned in accordance with recommended maintenance procedures and approved maintenance products. The implementation of an effective cleaning regime is the most important defence against infection.		
	Polyflor homogeneous PUR, heterogeneous PUR and Polyurethane safety flooring ranges are compatible for use with the most commonly used alcohol-based hand gels. Some alcohol-based hand gels contain a high concentration of ethanol and to discuss their compatibility with XL PU, contact Polyflor Customer Technical Services. For information regarding handling and installation, adhesives, maintenance, applications, chemical resistance and product warranty consult Polyflor Customer Technical Services on +44 (0)161 767 1912, or email tech@polyflor.com . The data presented is correct at the time of printing. For latest information, please visit our website polyflor.com . Decoration and shade may vary slightly from the samples shown.		

100% RECYCLABLE
25% RECYCLED MATERIAL

A+ BRE
Global Environmental

EPD
Environmental Product Declaration

Recofloor
Recycling Scheme

BES 6001
Responsible Sourcing

ISO 9001
Quality Management

ISO 14001
Environmental Management

ISO 45001
Occupational Health and Safety

ISO 50001
Energy Management

ISO 26000
Sustainability

CE
EN 14041

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SUSTAINING THE WORLD

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FLOORING

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