

SPECIFICATION SHEET NO:	PSA 168	DESCRIPTION:	POLYSAFE QUATTRO PUR 2.00mm	DATE:	APRIL 2023
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ARCHITECTURAL SPECIFICATIONS / BOQ

SPECIFICATION:

Supply and install Polysafe Quattro PUR flexible PVC sheet flooring in 2.0mm thickness containing a selection of the following safety aggregates to impart enhanced slip resistance: coloured quartz, natural recycled aggregates and aluminium oxide granules, the flooring material shall fully conform with the European Norm for safety flooring - EN 13845, in respect of flame spread, the flooring shall be categorised as Class Bfl-S1 according to EN 13501-1. The flooring shall have been fully tested to ASTM E648 by an independent test house and have a Class 1 rating, making it suitable for use in institutional, commercial and public buildings, the flooring must have been fully tested by an independent test house to the RRL Pendulum Test (Slider 96) and have results of 50+ in the wet, with a surface roughness of Rz $\geq 20\mu\text{m}$, making it suitable for use in areas where enhanced slip resistance is required in barefoot or shod conditions. A result of Class B to AS 4586 Part C & DIN 51097 should be achieved. The product should be certified as R11 to DIN 51130, the flooring shall meet the water tightness requirements in EN 13553, meaning suitability for installation in special wet areas, the product must have been fully tested for abrasion resistance to EN 13845, passing the 50,000 cycles test and meeting EN 660-2 Abrasion Group T, this product should 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, the flooring must be suitable for Use Area Classification 23/34/43, as defined in EN ISO 10874 (EN 685), In respect of light fastness, the flooring shall have been fully tested to ISO 105-B02 Method 3 and obtain ≥ 6 .

Colour:

Code:

Welding Rod:

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

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. Rolls delivered horizontally on pallets/skids should be decanted and stored upright immediately upon acceptance of delivery. Leaving rolls laid horizontally on pallets more than 24 hours following delivery can cause compression problems. Claims cannot be accepted for damage to rolls where they have been stored horizontally on pallets/skids more than this time. To ensure a successful installation all Polyflor products should be correctly acclimatised.
- > 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.
- > Inflammable adhesives require special storage conditions. Contact the adhesive manufacturer or see current literature for details.

PRIOR TO INSTALLATION WHERE UNDERFLOOR HEATING IS USED

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

SPECIALIST FLOORING & WALL PROTECTION PARTNER

Tel: 011 609 3500 | Email: marketing@polyflor.co.za | www.polyflor.co.za
 Poly Sales House, 8B Buwbes Road North, Sebenza, 1609, South Africa. PO Box 3967, Edenvale, 1610, South Africa

your adhesive manufacturer for more information.

- > When underfloor heating is the only source of heat, alternative measures must be taken to meet all site condition requirements, as previously mentioned.
- > 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. Further information on subfloors and subfloor preparations can be found in Section two.

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 100mm 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.
- > If it is not feasible to 'lay out' the slabbed sheet overnight, back roll the product and allow to stand for 15 minutes prior to the installation. Failure to do this will result in shrinkage as back rolling will occur when 'folding back' to adhere to subfloor.

KEY POINT Commencement of work is deemed as acceptance of the site conditions as suitable for laying floor coverings.

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 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 (line A-B).
- > In the centre of the room, draw a line on both the sheet and subfloor square to the main axis of the sheet (line C-D).
- > Keeping the inner edge of the sheet on line A-B, 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 25mm overlap along the adjoining edges or overlap of selvedge.

- > 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 in previous section.
- > 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.

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. Note: The seams should be cut before the adhesive is applied.

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, epoxy, 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.

MAINTENANCE: NOTE: NEVER USE A BLACK PAD TO SCRUB A PUR COATED FLOOR

To maximize efficiency of the cleaning system and minimize costs taking advantage of the Polyflor PUR-polyurethane reinforcement cross linked and UV cured finish, the following is recommended:

INITIAL CONSTRUCTION CLEAN

- Sweep, mop sweep or dry vacuum the floor to remove dust, grit, and debris.
- Apply a solution of alkaline cleanser, diluted to the manufacturer's instructions, to the floor and leave for sufficient time to react with the soiling. Using a 165-rpm rotary machine fitted with a rotary scrubbing brush or, if necessary, a scrubbing pad, machine scrub the floor and then pick up the slurry with a wet vacuum. Rinse the floor thoroughly with clean, warm water, pick up with a wet vacuum and leave to dry thoroughly.
- Note 1: For small areas, where there is no suitable scrubbing machine available, a deck scrubber should be used in conjunction with a wet

vacuum or mop and bucket system

- Note 2: For very heavy soiling, dilution rates above the manufacturer's minimum recommendations may be necessary.

ROUTINE MAINTENANCE

- The frequency of each of the operations is dependent upon the type and intensity of traffic.

MANUAL CLEANING

- Remove surface dust and grit by sweeping or vacuum.
- Apply a solution of neutral cleanser (or alkaline cleanser, dependent upon the level of contaminants), diluted to the manufacturer's instructions section to be cleaned. Leave for sufficient time to react with the soiling.
- Scrub using doodlebug or deck scrubber.
- Pick up the slurry with a clean microfibre mop, using a continuous side-to-side motion. When the mop head becomes loaded, it will start streaking the floor. At this point the dirty mop head should be removed and placed into a laundry bag and a clean mop head fitted. The cycle should then be repeated until the whole floor is completed.
- The dirty mop heads should then be laundered, in preparation for reuse.
- Where detergent residue remains on the floor surface, the area should be rinsed completely with clean, warm water, picked up with a wet vacuum and left

to dry thoroughly.

MACHINE CLEANING

- Sweep, mop sweep or dry vacuum the floor to remove dust and loose dirt.
- Using a scrubbing brush or a cylindrical type scrubbing machine.
- Apply a solution of neutral or alkaline cleanser, diluted to the manufacturer's instructions, to the floor and leave for sufficient time to react with the soiling. Using a 165-rpm rotary machine fitted with a bristle brush, cylindrical machine, or deck scrubber, scrub the floor, and then pick up the slurry with a wet vacuum. Rinse thoroughly with clean, warm water, pick up with a wet vacuum and leave to dry thoroughly.

APPLICATION OF A FLOOR DRESSING

Maintainers, polishes, or floor dressings containing polish should never be applied to Polysafe ranges, as this may impair the slip resistance but, if in doubt, consult Polyflor.

Sufficient entrance or barrier matting is highly recommended and will greatly ease the maintenance programme.

BAREFOOT & SHOD, WET & DRY.

SAFETY FLOORING



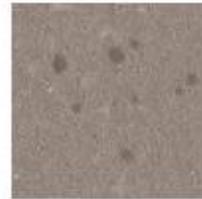
Chalk Dune 5766 wlr 5766 LRV 60.2
NCS S 1502-Y50R



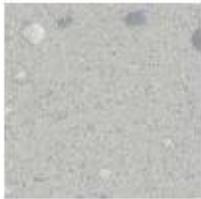
Lunar Shell 5772 ▲ wlr 5772 LRV 64.1
NCS S 1502-Y



Barley Cove 5761 ▲ wlr 5761 LRV 46.8
NCS S 3005-Y50R



Truffle Shore 5762 ▲ wlr 5762 LRV 24.3
NCS S 5000-Y50R



Sea Spray 5763 ▲ wlr 5763 LRV 49.3
NCS S 3000-N



Sea Mist 5768 wlr 5768 LRV 46.0
NCS S 2010-B



Calm Azure 5770 wlr 5766 LRV 30.0
NCS S 2030-B90B

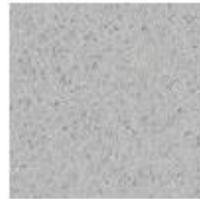


Deep Lagoon 5771 wlr 5707 LRV 18.0
NCS S 9010-B90B

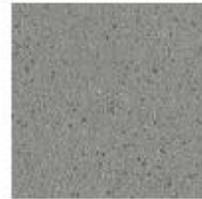


HSE Compliant
50+
Pendulum Wet Test

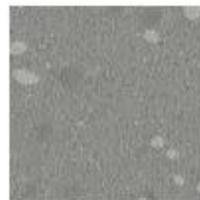
Sustainable Slip Resistance
throughout product's guaranteed life



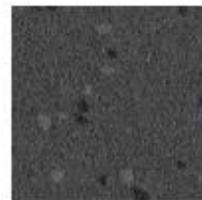
Cool Pebble 5767 wlr 2090 LRV 45.0
NCS S 3000-N



Slate Haze 5773 wlr 5784 LRV 26.0
NCS S 5000-N



Coastal Flint 5764 ▲ wlr 5764 LRV 26.0
NCS S 4500-N



Granite Sky 5765 ▲ wlr 4490 LRV 10.3
NCS S 7502-B

wlr = wet lead NCS = Natural Colour System LRV = Light Reflectance Value

▲ = These colours contain a tonal chipped decoration



100% RECYCLABLE
CONTAINS RECYCLED MATERIAL



Polysafe Quattro

Polysafe Quattro PUR is a heavy-duty, carbonundum-free safety flooring with a flat emboss, designed to provide underfoot traction in continually wet areas. Available in either a solid colour or tonal chipped decoration, Quattro is ideally suited to both barefoot and shod traffic. Incorporating particles in the vinyl for sustainable wet slip resistance, Quattro offers enhanced protection in areas such as walk-in showers, wet rooms, disabled adaptations, hydrotherapy areas, spas, changing rooms and indoor swimming pool surrounds.

RRL Pendulum Test
50+
Sustainable Slip Resistance



	Gauge	EN 426/ISO 24346	2.0mm
	Roll Size	EN 426/ISO 24341	2m x 20m = 40m ²
	Total Weight	EN 430/ISO 23997	2700g/m ²
	General Performance	EN 13845 ASTM F1303	Conforms Conforms
	Use Area	EN 685/ISO 10874	
	Resistance to Chemicals	EN 423	Good chemical resistance
	Water Tightness	EN 13553	Annex A
	Reaction to Fire	EN 135011 ASTM E648 Australian BCA Spec CLD-3	Class Bfl-S1 Class I Complex
	Abrasion Resistance	EN 13845 EN 649	50,000 cycles Group T
	Enhanced Slip Resistance	EN 13845 AS 4586 Appendix A AS 4586 Appendix C AS 4586 Appendix D DIN 51097 DIN 51330 RRL Pendulum Test Surface Roughness	ES6 & ES7 D4 Class B B5 Class B B6 x50 (wet test - 45 Rubber/Skate 96) Rz >20µm
The slip resistance across all Polysafe products is sustainable throughout the guaranteed life of the product, with strict adherence to HSE Guidelines. For further clarification regarding slip resistance, consult Polyflor.			
	Electrical behaviour (body voltage)	EN 1815	<2kV Classified as 'antistatic'
	VOC Emissions	AgBB VOC test Finnish MI Classification	Pass Certified
<p>Environmentally Preferable Flooring - Polysafe Quattro PUR achieves BRE Global Environmental Generic A* rating in major use areas such as education and healthcare. Generic EN 15604 Environmental Product Declaration (EPD) available on request. It is 100% recyclable and contains recycled material. Recyclable via the Recofloor scheme. Visit www.polyflor.com/sustainability</p> <p>Polysafe PUR - Polysafe Quattro PUR features a high quality, cross-linked polyurethane reinforcement, UV cured to provide superior cleaning benefits, life cycle maintenance savings and optimum appearance retention. As with all Polysafe products, Polysafe Quattro PUR should not have a polish applied.</p> <p>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.</p> <p>Polysafe safety flooring ranges have good resistance to dilute acids and alkalis, are compatible for use with the most commonly used alko based hand gels and are suitable for steam cleaning on a periodic basis. Chemical resistance charts available on request. For information regarding handling and installation, adhesives, maintenance, applications, chemical resistance and product warranty, consult Polyflor Customer Technical Services on +44 (0)161 767 1012, or email tech@polyflor.com.</p> <p>The data presented is correct at the time of printing. For latest information, please visit our website polyflor.com.</p> <p>This product contains a blend of quartz particles in various colours within the vinyl to impart the required sustainable slip resistance. Decoration and shade may vary slightly from the samples shown.</p>			



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