

SPECIFICATION SHEET NO:	PSA 151	DESCRIPTION:	EXPONA FLOW PUR 2.00mm	DATE:	APRIL 2023
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ARCHITECTURAL SPECIFICATIONS / BOQ

SPECIFICATION:

Supply and install Expona Flow PUR flexible PVC sheet flooring in 2.0mm thickness, It shall have the following laminated construction: circa 0.70mm clear PVC wear layer, a fibreglass reinforced integral print layer and circa 1.30mm of PVC backing, The flooring shall incorporate a specially formulated polyurethane reinforcement, to significantly reduce maintenance costs, In accordance with EN ISO 10582/EN 649, the in-use classification must be at least 23/34/43 as described in EN ISO 10874: ie domestic areas with intense use; commercial areas with very heavy traffic; and heavy light industrial areas, In respect of flame spread, the flooring shall have been fully tested to EN13501-1 and certified as having Class Bfl-S1, The product must have been fully tested for abrasion resistance and meet the requirements of abrasion Group T, as defined in EN 649 and Binder Content Type 1 as defined in EN ISO 10582, This product does not accumulate static charges above 2kV and is classified as 'antistatic' when tested to EN1815. For specialist applications where there is a requirement to dissipate the electrostatic charge see the Polyflor ESD product ranges, With regards the European requirements EN 13893 for slip resistance, the flooring shall be classified DS, making it suitable for use in areas which are predominantly dry, when tested to DIN 51130 the product shall be classified as R10. For safety flooring with sustainable wet slip resistance, refer to the Polysafe ranges, in respect of light fastness, the flooring shall have been fully tested to ISO 105-BO2 Method 3 as having a pass to ≥6, the flooring must be available in 2.01 metre width, including a 0.01 metre selvage for on-site trimming, to minimise the number of joints.

Colour:

Code:

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

Please note the following: Due to extreme temperature fluctuations in South Africa and Africa, we DO NOT recommend the method of cold welding. Polyflor SA recommends hot welding of heterogeneous products.

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 period. 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 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.

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.

SPECIALIST FLOORING & WALL PROTECTION PARTNER

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Poly Sales Africa (Pty) Ltd. trading as Polyflor South Africa. Company Registration 2004/012256/07

- >>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 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.

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 (fig. 1).
- >>Depending upon the depth of the recesses, use either a bar scriber 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 selvage.
- >>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 Section 3.6.
- >>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. **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. 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 on (011) 609 3500 or marketing@polyflor.co.za

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:

1. Post Installation:

- All loose dirt such as dust, grit, sand etc. must be removed, preferably by vacuuming the floor.
- The floor should then be cleaned using a neutral detergent, diluted as per the manufacturer's instructions, machine scrubbed and dirty cleaning solution wet vacuumed off the floor. (If a wet vacuum is not available, a mop and wringer system can be used).
- Adhesive can be removed with an appropriate detergent/solution such as Polyflor Powerclean if necessary. As a principle, aggressive solvents should be avoided as these may affect the PUR finish. More powerful detergents such as PRO-INOX (previously Resinox) from Industroclean can be used to remove persistent soiling which is not removed by the initial clean.
- The floor should then be rinsed until all traces of the neutral detergent are removed and wet vacuumed to remove all traces of water.

2. Daily

- Sweep/mop using a disposable cloth system such as the Masslinn system or vacuum to remove dust and grit; (Ensure that the vacuum is fitted with a Hepa filtration system in a healthcare environment)
- Spot or damp mop where required using a neutral detergent such as PROCLEAN.

3. Interim or Weekly Clean (Depending on conditions)

- To remove light scuff marks:

Dry buff with a +- 1000 rpm ultra-high speed burnisher using a clean 3M pink eraser or white pad.

- To remove heavy scuff marks:

Scrub with a low speed burnisher and neutral detergent, Proclean-diluted 100ml: 10L with cold water using the green Eco Brilliance pad.

4. Periodically (3-9 monthly) depending on conditions

- If required, scrub with a +- 165 rpm machine fitted with a red or blue pad using neutral detergent PROCLEAN diluted 20:1 with cold water as appropriate. Rinse well with clean water and dry buff with white pad to restore finish.

Please note that all PVC welding rod is not coated. We recommend the application of a layer of PUR sealer to all welds in a PUR sheeting floor to enhance maintenance procedures.

NB: to create a higher sheen on the floor, use a 1000 rpm machine using a clean white 3M pad or green Eco Brilliance Pad.

This program will keep maintenance costs to a minimum and requires no sealers.

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

EXPONA FLOW

Infinity



Henry Rope 9859 w/ 9859 187.20
Alamo Oak 9864 w/ 9864 187.24
Admiral Oak 9863 w/ 9863 187.23
Express 9867 w/ 9867 187.17
Forest 9868 w/ 9868 187.18
Forest Oak 9865 w/ 9865 187.15
Forest Pine 9866 w/ 9866 187.16



9859, 9863, 9864, 9865, 9866, 9867, 9868
 100% Recycled Material

Wood



English Oak 9823 w/ 9823 187.23
Golden Pine 9828 w/ 9828 187.28
Reclaimed Charcoal 9820 w/ 9820 187.20
Reclaimed Oak 9821 w/ 9821 187.21
Reclaimed Pine 9825 w/ 9825 187.25
Shaded Oak 9827 w/ 9827 187.27
Shaded Pine 9826 w/ 9826 187.26
Charcoal Pine 9827 w/ 9827 187.27
Apex Oak 9824 w/ 9824 187.24

9820, 9821, 9823, 9824, 9825, 9826, 9827, 9828
 100% Recycled Material

Wood



White Pine 9834 w/ 9834 187.34
Painted Charcoal 9829 w/ 9829 187.29
Grey Washed Charcoal 9829 w/ 9829 187.29
Classic Limited Oak 9833 w/ 9833 187.33
Broad Pine 9839 w/ 9839 187.39
Broad Oak 9820 w/ 9820 187.20
Silver Oak 9826 w/ 9826 187.26
San Blas Oak 9825 w/ 9825 187.25
Warm Limited Oak 9832 w/ 9832 187.32
Reclaimed Limited Oak 9821 w/ 9821 187.21



9820, 9821, 9825, 9826, 9829, 9832, 9833, 9834, 9839
 100% Recycled Material

HETEROGENEOUS





EXPONA[®] FLOW

Cosmos

HETEROGENEOUS



Luna 9844
NCS S 1502-B

w/ 9844
LRV 48



Storm 9845
NCS S 3502-B

w/ 9845
LRV 26



Oatmeal 9840
NCS S 2003-G90Y

w/ 9840
LRV 43



Moleskin 9841
NCS S 3003-Y20R

w/ 9841
LRV 28



Steel Blue 9852
NCS S 6020-B3G

w/ 9852
LRV 10



Midnight 9854
NCS S 7003-B90B

w/ 9854
LRV 11



Taupe 9843
NCS S 7502-Y

w/ 9843
LRV 21



Meadow 9850
NCS S 2050-G90Y

w/ 9850
LRV 32



Teal 9851
NCS S 6020-B70G

w/ 9851
LRV 11



Woodland 9853
NCS S 6020-B50G

w/ 9853
LRV 8



Jet 9842
NCS S 8020-N

w/ 9842
LRV 8



Flaxen 9849
NCS S 0560-Y

w/ 9849
LRV 44



Burnt Orange 9848
NCS S 3040-Y40R

w/ 9848
LRV 24



Mulberry 9846
NCS S 6010-R30B

w/ 9846
LRV 13

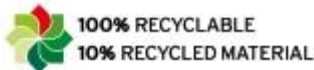


Plum 9847
NCS S 6020-R30B

w/ 9847
LRV 9

Variances in colour and design is a feature of this product intended to enhance the natural appearance of the floor.

w/ = wall roll NCS = Natural Colour System LRV = Light Reflectance Value



*Refer to BRE Global ratings on www.greenbooklive.com

EXPONA® FLOW

Concrete

HETEROGENEOUS



Light Grey Concrete **9858**
NCS S 3000-N

wf-9858
LRV 40



Warm Concrete **9855**
NCS S 3502-R

wf-9855
LRV 25



Cool Concrete **9856**
NCS S 4500-N

wf-9856
LRV 22



Dark Grey Concrete **9857**
NCS S 0502-R

wf-9857
LRV 12



Light Industrial Concrete **9860**
NCS S 2500-N

wf-9860
LRV 25



Dark Industrial Concrete **9859**
NCS S 4502-R

wf-9859
LRV 24



Copper Ornamental **9861**
NCS S 0502-R

wf-9861
LRV 19



Onyx Ornamental **9862**
NCS S 1000-N

wf-9862
LRV 11

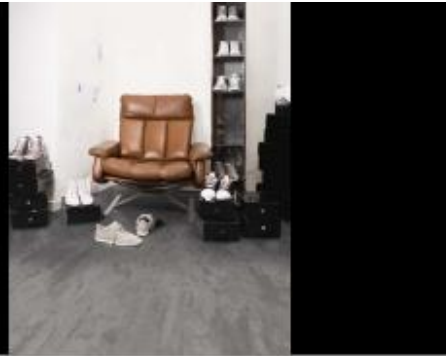
Variation in colour and design is a feature of this product intended to enhance the natural appearance of the floor.
wf = wet roll NCS = Natural Colour System LRV = Light Reflectance Value



*Refer to BRE Global ratings on www.greenbooklive.com

EXPONA FLOW

The Expona Flow collection presents beautifully replicated wood planks and vivid abstract effects in a practical and durable vinyl sheet format. Available in 50 shades, the collection has been specifically developed for heavy commercial installations including education, healthcare, office, leisure and retail sectors.



	Gauge	EN 426/ISO 24346	2.0mm
	Wear Layer	EN 429/ISO 24340	0.7mm
	Roll Size	EN 426/ISO 24341	2m x 20m = 40m ²
	Total Weight	EN 430/ISO 23997	2660g/m ²
	General Performance	EN 649 EN ISO 10582	Conforms Conforms
	Use Area	EN 685/ISO 10874	
	Resistance to Chemicals	EN 423/ISO 26987	Good chemical resistance
	Reaction to Fire	EN 13501	Class Bfl-S1
	Abrasion Resistance	EN 649 EN ISO 10582	Group T Type 1
	Slip Resistance*	EN 13893 A3 4386 DIN 51320	Class DS (dry condition) R10 R10
	Residual Indentation	EN 433/ISO 24343-1	$\leq 0.03\text{mm}$
	Castor Chair (continuous use)	EN 425/ISO 4916	Suitable
	Dimensional Stability	EN 434/ISO 23999	$\leq 0.40\%$
	Flexibility	EN 435/ISO 24344	(Method A) Pass 20mm \varnothing
	Thermal Conductivity	-	Suitable for underfloor heating (Max 27°C)
	Static Electrical Propensity	EN 1515	$\leq 2.0\text{kV}$ Classified as 'antistatic'
	Light Fastness	ISO 105 B02	(Method 3) ≤ 6
	VOC Emissions	Indoor Air Comfort GOLD AgBB VOC test FloorScore Swedish B.P.D. (FLECC test) Finnish M1	Euroflor certified product Very low emissions Certified Best Class Certified
<p>Environmentally Preferable Flooring - Polyflor Expona Flow PUR achieves a BRE Global A+ rating (ENP 45) in the Green Guide to Specification in use areas such as education and healthcare. Generic EN 15004 Environmental Product Declaration (EPD) available on request. Recyclable via the Recofloor scheme. Visit www.polyflor.com/sustainability.</p>			
<p>PUR - Polyflor Expona Flow PUR features a high quality, cross-linked polyurethane reinforcement, UV cured to provide a low-cost, polish-free maintenance regime for the lifetime of the flooring.</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>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.</p> <p>*For safety flooring with sustainable wet slip resistance, refer to Polysafe ranges.</p> <p>The data presented is correct at the time of printing. For latest information, please visit our website polyflor.com.</p> <p>Decoration and shade may vary slightly from the samples shown.</p>		



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