

# Polyflor SD

Polyflor ESD is a hardwearing homogeneous contract sheet and tile floorcovering with static dissipative properties, engineered for use where static control is required. These floorcoverings are ideal for use in telecommunications installations, computer rooms and healthcare facilities such as scanner rooms, X-ray suites and operating theatres, also suitable for use in electronics manufacturing.



## PRODUCT SPECIFICATION



- The flooring shall be Polyflor SD, as manufactured by Polyflor Ltd. of Manchester, England.
- The flooring shall be flexible PVC sheet flooring with static dissipative properties in 2.0mm thickness.
- It shall be homogeneous and monolayer in construction.
- The electrostatic conductive properties must be present throughout the full product thickness.



- The flooring shall conform fully with the requirements of EN 649.
- In respect of flamespread, the flooring shall have been fully tested to EN 13501-1 and certified as having Class Bfl-S1, achieving the criteria EN ISO 9239-1  $\geq 8 \text{kw/m}^2$  and the mandatory requirement of EN ISO 11925-2 pass. It shall be tested to ASTM E648 and certified as having passed with a Class 1 rating, making it suitable for use in institutional, commercial and public buildings. Tested to ASTM E662, the flooring shall be  $< 450$ .
- With regard to EN 13893 for slip resistance, the flooring shall be classified DS. It shall also be classified R9 for DIN 51130 making it suitable for use in areas which are predominantly dry, but with occasional spillage.
- The product must have been fully tested for abrasion resistance to the Frick Taber test EN 660: Part 2 and be in abrasion group M, as defined in EN 649.
- With regard to static dissipative properties, the flooring must conform to the requirements of IBM specifications. When tested to EN 1081 R<sub>1</sub>/R<sub>2</sub> the flooring must have a resistance of  $< 10^9$  ohms. When tested to ESD S7.1, the flooring must have a resistance of between  $1 \times 10^6$  to  $1 \times 10^9$  ohms. Tested to BS IEC 61340-4-1 2003 R<sub>6</sub>, the flooring must have a resistance between  $1 \times 10^6$  to  $1 \times 10^9$  ohms.
- In accordance with EN 649, the in-use classification must be at least 34/43 as defined in EN 685: i.e. commercial areas with very heavy use; and light industrial areas with heavy use.
- 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  $\geq 6$



- The flooring will achieve BRE Global Environmental Generic A+ rating in major use areas such as education and healthcare. Refer to BRE Global Ratings on [www.greenbooklive.com](http://www.greenbooklive.com)
- Generic EN 15804 Environmental Product Declaration (EPD) available on request.
- The manufacturer should provide a facility to take back and recycle waste vinyl flooring material through the Recofloor scheme.



- The manufacturer of the floorcovering must be in possession of a valid quality systems certificate, showing compliance with BS EN ISO 9001.
- The manufacturer of the floorcovering must be in possession of a valid environmental certificate, showing compliance with ISO 14001.



- A moisture test must be carried out, to ensure that the subfloor has dried out to a level consistent with the application of vinyl flooring. The test should be carried out using a hygrometer, in accordance with the instructions in BS 8203. The result should not exceed 75%RH, once equilibrium has been achieved.
- The adhesive used must be approved by Polyflor, to ensure full product compatibility.
- Products must be fully conditioned to the environment in which they are to be installed, as outlined by Polyflor.
- Installation must be carried out in accordance with BS 8203 and the instructions of Polyflor, to ensure product performance and achievement of electrical results outlined above.
- All joints must be welded to produce hygienic, continuous floors.



- At the date of issue the data presented is correct. However, Polyflor Ltd. reserves the right to make changes which do not adversely affect performance or quality.
- For information regarding handling and installation, advice on specific applications, adhesives, maintenance and chemical resistance, consult Polyflor.
- Access Panel applications require specific fitting instructions, to ensure product performance and achievement of electrical results outlined. Contact Polyflor Customer Technical Services on +44 (0)161 767 1912, or email [tech@polyflor.com](mailto:tech@polyflor.com).

