



# Polysafe<sup>™</sup> Arena

Design trends with safety assured

**POLYFLOR<sup>™</sup>**  
COVERING THE WORLD



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Design trends with safety assured

Welcome to Polysafe Arena PUR, a new safety vinyl sheet flooring collection showcasing modern interior design trends, capturing the beauty and authenticity of material surfaces, with the built in reassurance of sustainable wet slip resistance.

Designed for ease of installation in heavy commercial areas with risks of spillage, Arena represents the latest evolution in safety flooring, combining influences from natural outdoor materials and textures with the functionality needed to meet public duty of care requirements.

Reflecting current architectural demands, Arena features four inspiring and contemporary design styles, each with their own identity, individuality and nuance in tone. Ranging from realistic impressions of natural stone textures, finished concrete to the more abstract linear and textile designs, Arena offers the ideal platform to create a lasting impression at front or back of house. This high clarity styling is supported by the incorporation of clear aluminium oxide particles in the vinyl ensuring a carborundum free finish that is fully HSE Compliant and provides sustainable underfoot safety.

Featuring a mix of subtle and richer base shades with tonal and accent highlights, the Arena collection has been developed to closely replicate each material type. This ensures a fresh and stylish design canvas that builds a positive, homely and ambient mood in any housing or commercial setting.

Maintaining the look of a floor covering is vital, particularly in high visibility areas which need to look immaculate day in, day out. To widen its allure in these showpiece locations, Arena's exclusive Polysafe PUR reinforcement provides added ease of maintenance benefits and optimum levels of appearance retention to allow the floor to make the ultimate welcome statement.

Uniting the worlds of high design and function, Polysafe Arena PUR is the latest collection to reveal the future of decorative safety flooring with all the usual tried and trusted Polysafe credentials. Tuned to harmonise with other building substrates, Arena's latest material trends help create a comfortable, spacious and elegant floor space with the added security of built-in slip resistance.



## Design trends with safety assured

At the heart of every Polysafe collection is an assurance of sustainable wet slip resistance for the guaranteed product life. Polysafe Arena PUR's highly decorative appeal is backed up by the inclusion of clear aluminium oxide particles throughout the performance layer, to ensure increased traction between foot and floor and generate long term slip resistant performance. Once viewed at floor level, these hardwearing safety aggregates are virtually imperceptible, offering a clear reproduction of realistic surface materials, underpinned by the guarantee of underfoot safety.

As with all Polysafe ranges, Arena ticks all the boxes of a sustainable safety floor, fully conforming to the European Safety Flooring Standard EN 13845 and meeting the stringent requirements set down in the 50,000 cycles abrasion test. This ensures high durability and continued slip resistant performance thereby promoting suitability for use in commercial areas which can become wet and where spillages can occur.

Whether used in large scale front of house areas with heavy footfall such as entrances, walkways, general circulation areas or back of house in the more traditional safety locations, Arena is fully fit for purpose, achieving 36+ on the Pendulum Wet Test with a surface roughness of 20 microns and above. Classified as a product with low slip potential, in full compliance with HSE Guidelines and UK Slip Resistance Group Guidelines (2011), Arena meets all the necessary safety floor hallmarks for added reassurance in specification.

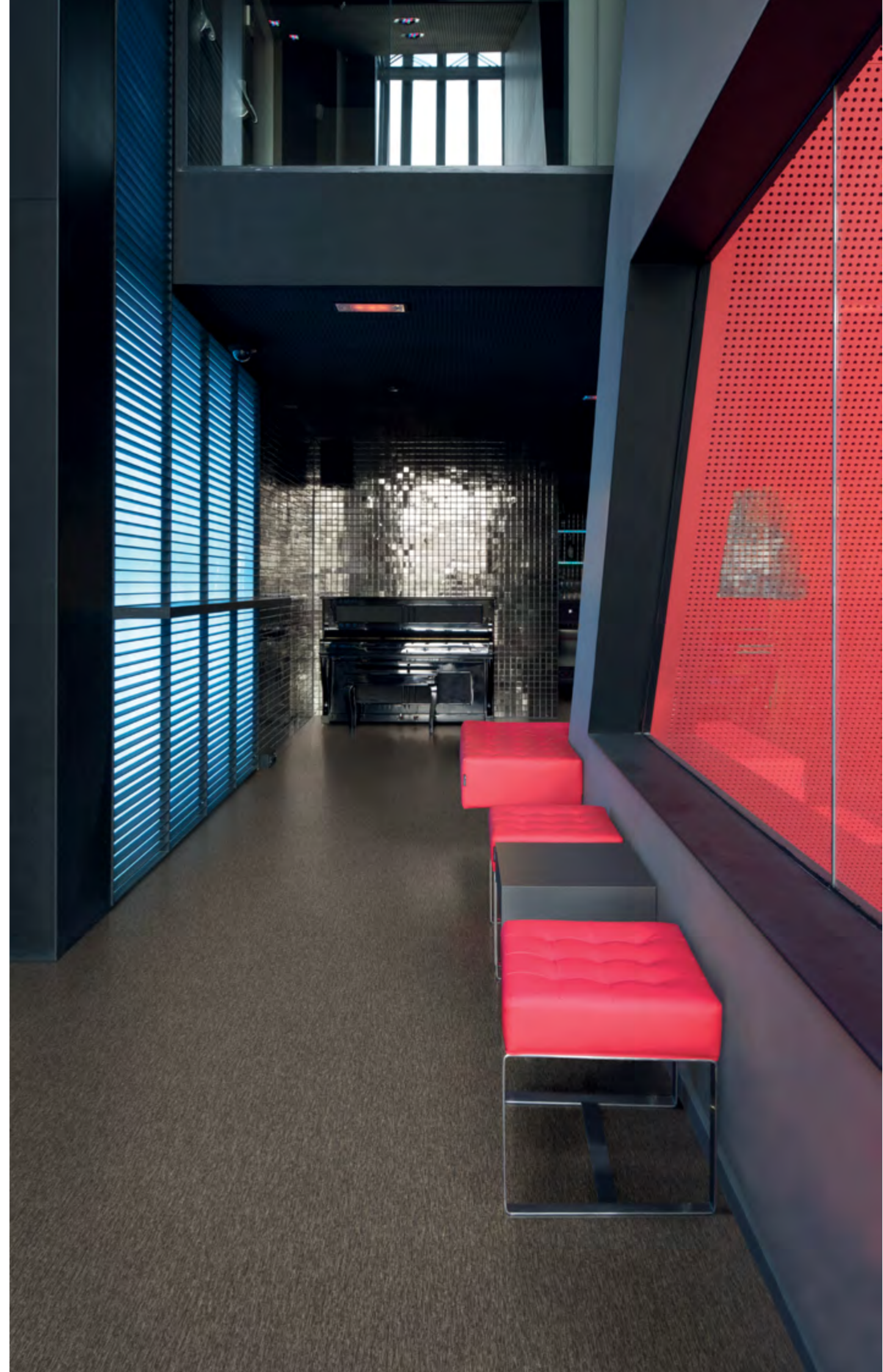


Magnification of safety aggregates



## Linear design

Meticulously developed using the influences of brushed metal and naturally formed grain, this abstract collection of iconic linear designs helps develop the platform for many contemporary interiors where form comes together to meet function. Featuring a dominant contour pattern balanced against a complementary base colour, this linear concept works with many other architectural surfaces, providing a unique visual depth to the decoration. Realistic markings and a grained emboss combine with clear aluminium oxide particles to generate a stunning base of clean lines with the reassurance of underfoot safety.





### Potential slips and duty of care

In any commercial or housing environment there is a duty of care to protect building visitors and ensure that flooring in specific areas is fully compliant with Health & Safety Executive Guidance and meets EN 13845 - the appropriate European Safety Flooring Norm. Where slip risks are identified through spillage or trafficked contamination entering a building, the availability of less institutional, higher clarity designs such as the exclusive linear concepts are favoured to meet these guidelines and solve dual slip resistance and aesthetic demands.



Image: 5084 Frosted Silver | 5086 Brushed Titanium



Image: 5085 Sand Grain

## Concrete effect



Replicating a timeless surface used for the construction of many outdoor architectural structures, Arena's concrete effects bring a fresh and modern twist into the interior. Mirroring the finished and freshly made look of concrete, the availability of calm and soothing base hues contrast with stronger tonal secondary colours to give a striking sophistication and realistic subtlety that demands attention.

With a high clarity finish and strong design authenticity balanced with non-intrusive safety aggregates for enhanced slip resistance, Arena's choice of cool grey or warmer tones allows for an inspirational yet safe interior to be developed.



### Safety assurance at front of house

In areas with a close proximity to external doorways, it is important to select flooring that will protect visitors and handle moisture and other contaminants coming in from the outside as well as the occasional spillage whilst retaining an airy, relaxing environment. The beauty afforded by the realistic concrete options available in Arena demonstrates that design and function can go hand in hand, meeting critical safety demands yet fostering a positive visitor experience that contributes to the building's servicescape.

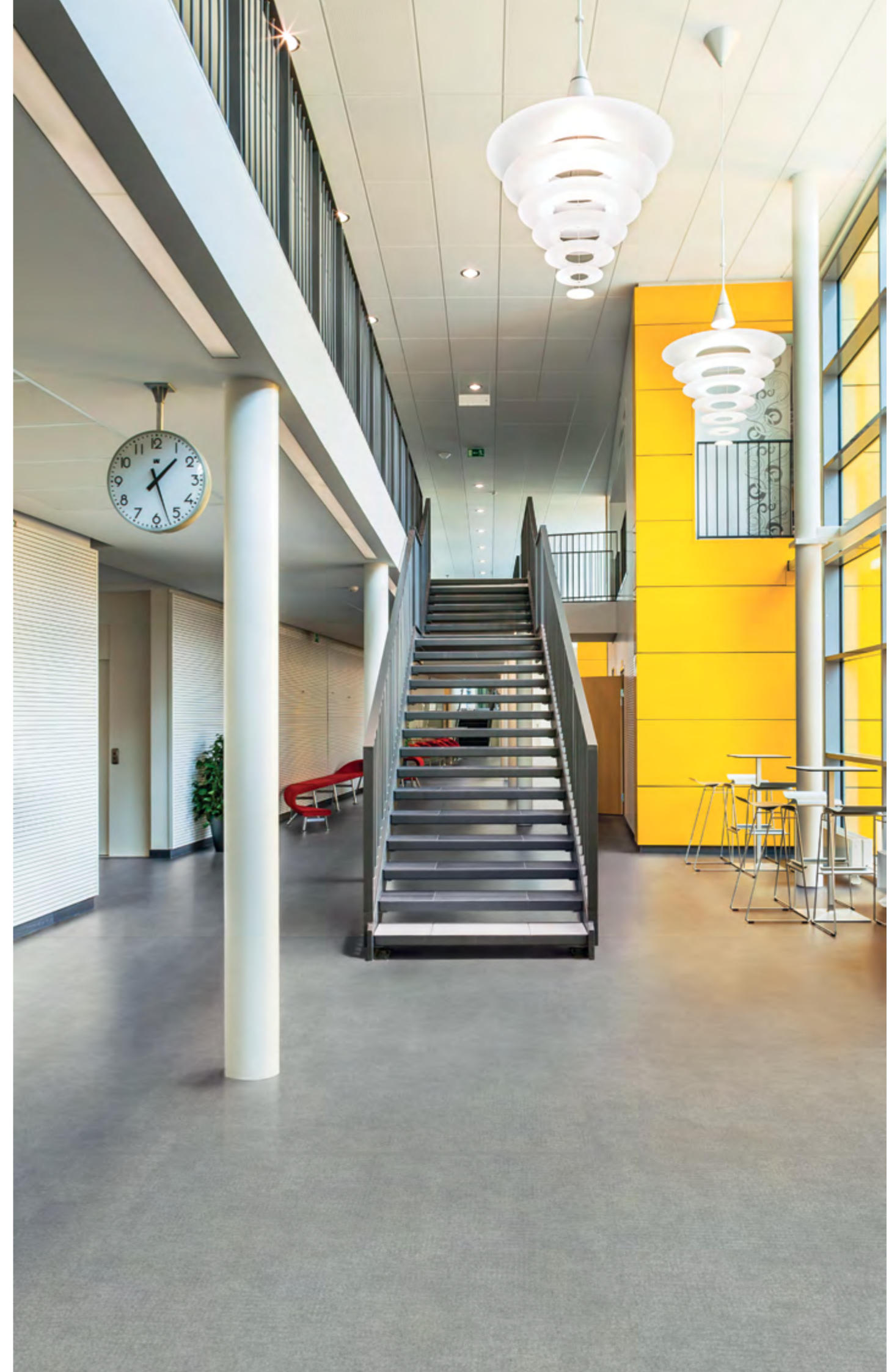




## Fabrique design

Drawing on inspiration from natural textile materials is Arena's elegant fabrique design, offering a new dimension to the floor space and creating an individual look that complements many interior building substrates.

Representing a unique expression of knitted and woven fibres, fabrique features three soft and muted colourways, each with a tonal imprint design on the surface to ensure a realistic texture that provides the foundation for an inspirational interior space. This contemporary design trend is backed up by imperceptible safety aggregates applied both on the surface and in the vinyl to guarantee sustainable safety floor performance.





### Calming, homely colours

Calming colours and the subtlety in texture available in Arena's fabrique range provide a warm, homely and spacious feature to commercial areas. This is ideal for healthcare and aged care facilities for example, where the focus is on promoting patient wellbeing. The softness in texture gives the floor a fresh and non-clinical feel to foster a working and living environment that is uplifting and positive for its users. With built-in slip resistance to cope with the occasional risk of spills, product suitability can be extended beyond the traditional use areas to the more design-led locations at front of house.

## Stone effect



Taking its inspiration from naturally formed stone and minerals, this distinctive design offers a realistic replication of outdoor materials, bringing a freshness and purity to the interior.

Featuring a delicate decoration in three subtle hues, each option offers minimalist accent swirls and veins which combine with virtually imperceptible safety particles to form a classical design that accentuates the floor space.



### Potential spillages

Ideally suited to many commercial and leisure interiors, Arena's stone effects can withstand daily spillages and contaminants in busy environments. With traditional safety flooring usually restricted to back of house serving areas, the stunning stone reproductions with in-built safety ensure that a full sheet vinyl installation can also be extended out into wider customer areas, giving complete design freedom and meeting all aesthetic, safety and maintenance requirements.

# achieve



Image: 5091 Flagstone Grey

## Ideal for large scale areas

With a choice of soothing tonal greys and a more neutral cream undertone, Arena's stone designs offer a creative yet understated footprint that authentically represents natural materials. Suitable for rollout across any large scale facility, colours can be interchanged to create harmonised zones to aid wayfinding. Joined at the seams by colour co-ordinated welds to prevent dirt ingress, this 2m wide sheet can be laid throughout a facility in any areas that have exterior access or which pose a risk of spillage.



Image: 5090 Crema Nova

## Easy Clean

The floor is an essential part of an interior space that needs to promote a positive impression to the public and ease of maintenance remains an important consideration for all in the specification chain.

To meet these requirements, Polysafe Arena features the renowned Polysafe PUR cleaning technology that is tried, tested and trusted. This super-strength PUR reinforcement is fused to the product during manufacture using a cross-linked process which is then UV cured to ensure the product is easier to clean than untreated flooring and offers improved soil release and optimum appearance levels.

A clean floor is a safer floor and the Polysafe PUR reinforcement facilitates an easier cleaning regime for maintenance staff and a reduced need for energy intensive cleaning, power, water and chemical consumption. Optimised for use with the micro mop maintenance regime, Arena provides cleaning life cycle cost savings of up to 60% over a 15 year period when compared to traditional safety flooring, savings which offset the initial cost of the material.

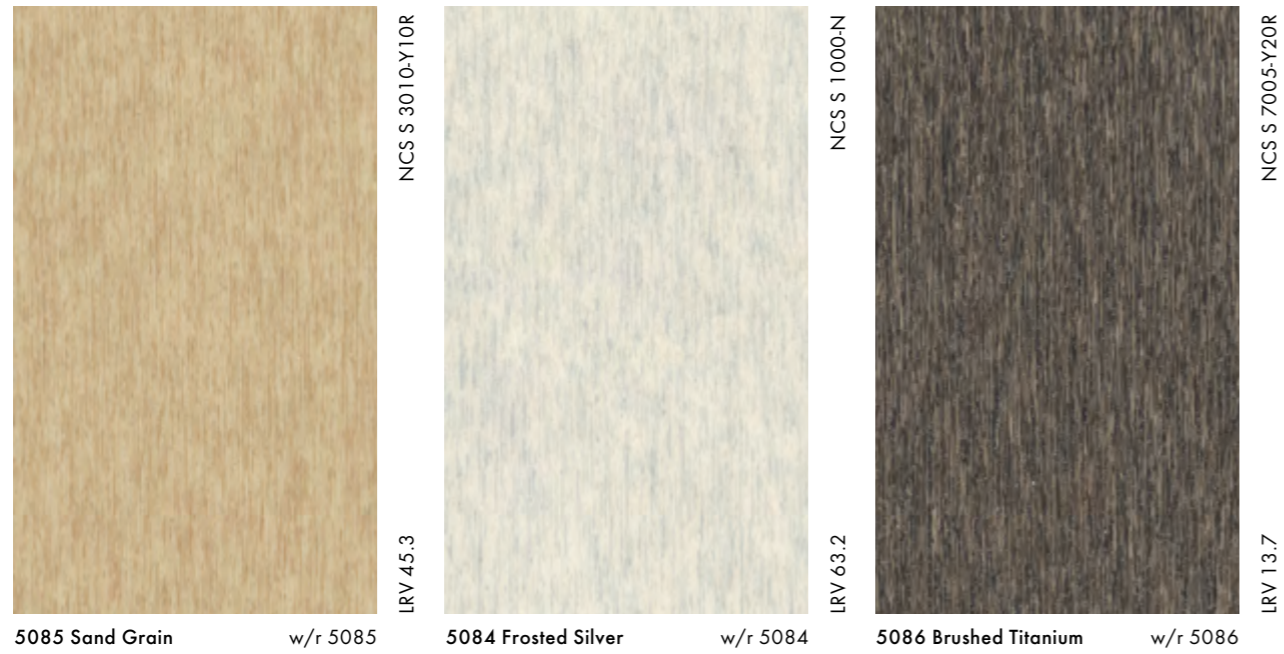
For detailed maintenance instructions and approved cleaning products visit the Polysafe Arena PUR product page at [www.polyflor.com/arena](http://www.polyflor.com/arena) or contact Polyflor Customer Technical Services on +44(0)161 767 1912.



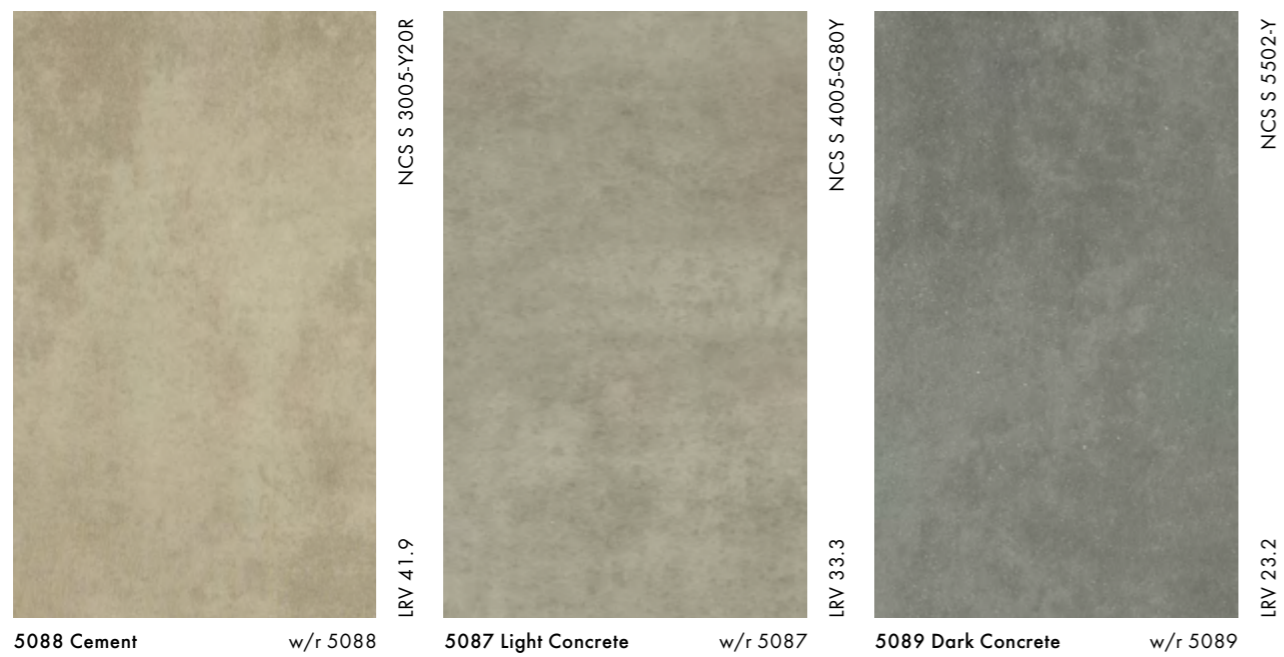
# Polysafe Arena

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## Linear design



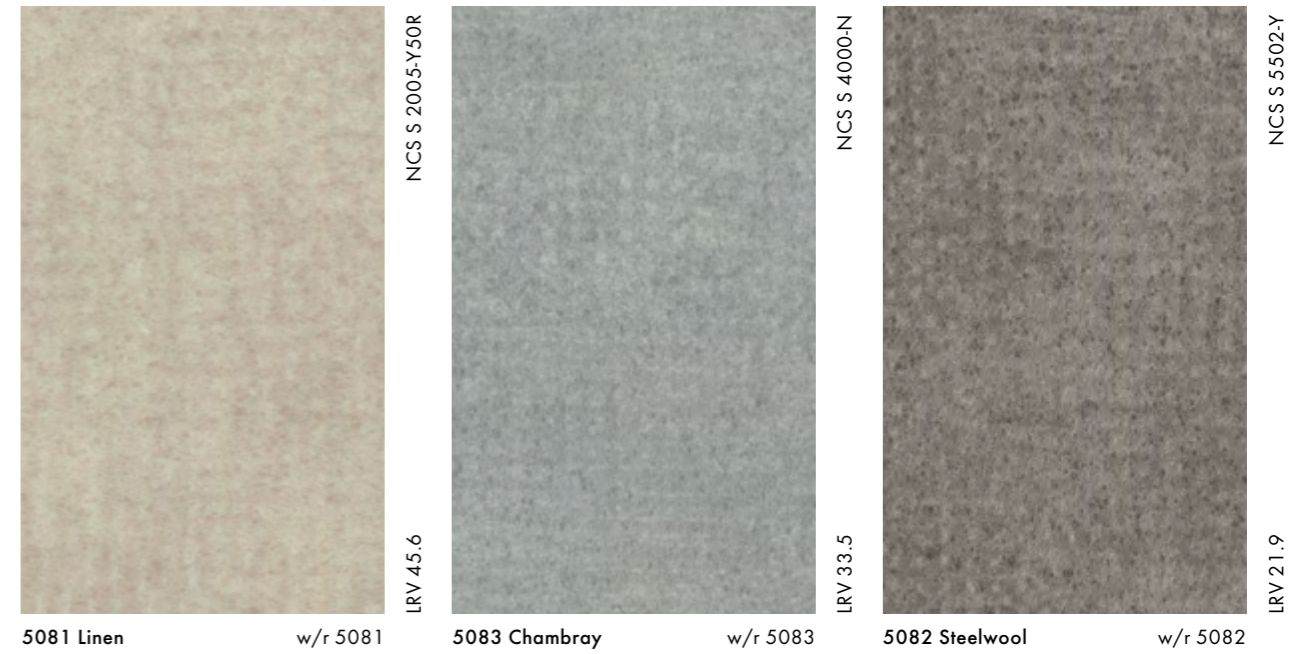
## Concrete effect



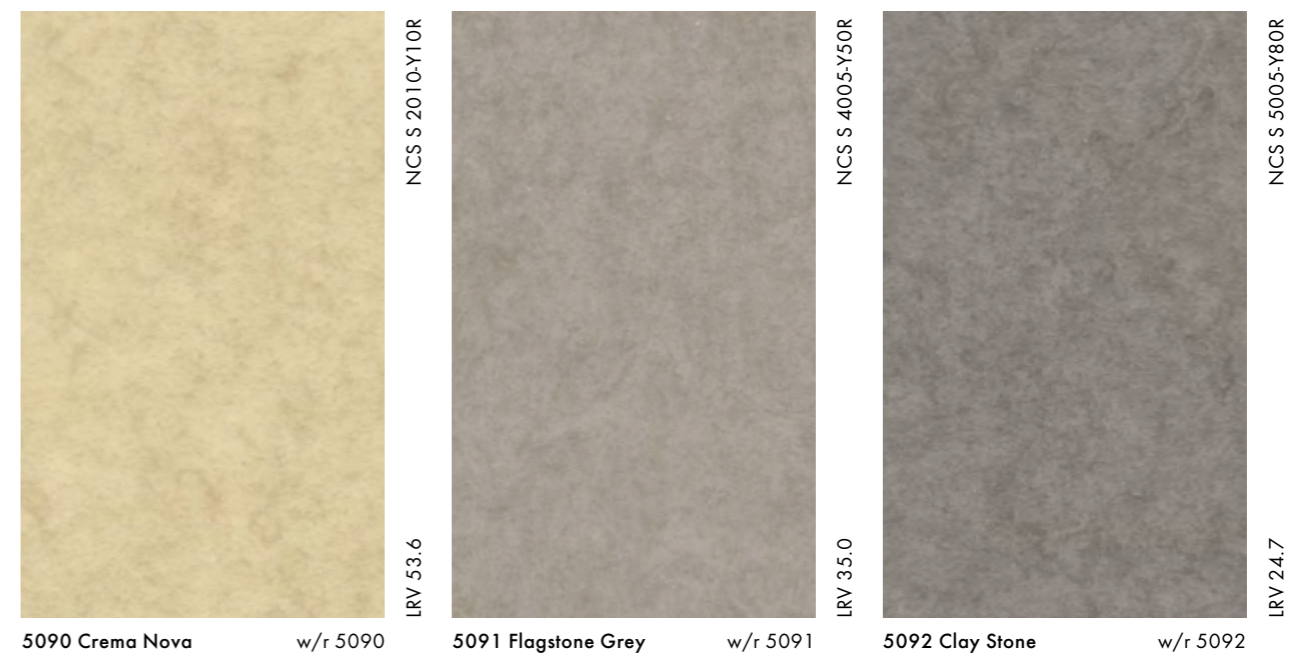
Light Reflectance Values (LRV) of all colours are tested in accordance with BS8300:2009. The closest perceived NCS - Natural Colour System references are quoted for your convenience. For more information see [nsccolour.com](http://nsccolour.com)

w/r = weld rod

## Fabrique design





















## Stone effect



Due to limitations in colour printing a FREE sample can be ordered via the Polyflor Sample Service to aid selection.

## Technical Specification

The table below details the technical properties of Polysafe Arena PUR

Gauge / Wear Layer		2.0 mm / 0.7mm	 13 EN 14041:2004 1121-CPR-DA0053    <b>EN 13845</b>
Roll Size		2m x 20m = 40m <sup>2</sup>	
Product Weight		2780g/m <sup>2</sup>	
General Performance		EN 13845 ASTM F1303 Agrément - under application	
Use Area Classification		23, 34, 43	
Reaction to Fire		EN 13501-1 Class Bfl-S1 ASTM E648 Class 1	
Enhanced Slip		Sustainable wet slip resistance* EN 13845 ESf RRL Pendulum Test $\geq 36$ (wet test - 4S Rubber/Slider 96) Surface roughness Rz $\geq 20\mu\text{m}$ AS/NZS 4586 R10 The slip resistance is assured throughout the guaranteed life of the product, with strict adherence to HSE Guidelines	
Abrasion Resistance		EN 13845 50,000 cycles EN 649 Group T	
VOC Emissions		Indoor Air Comfort GOLD: Eurofins certified product AgBB Very low emissions FloorScore certified	
Environmentally Preferable Flooring		Polysafe Arena PUR achieves BRE Global Environmental Generic A+ rating in major use areas such as education and healthcare. Environmental Product Declaration EN 15804 EPD is available on request. It is 100% recyclable and contains recycled material. Recyclable via the Recofloor scheme. Visit <a href="http://www.polyflor.com/environment">www.polyflor.com/environment</a>	
Maintenance Enhancement		Polysafe Arena 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 Arena PUR should not have a polish applied	
Resistance to Chemicals		Polysafe Arena PUR has good resistance to dilute acids and alkalis. The Polyflor Technical Information Manual provides a general guide. Chemical resistance charts by shade are available on request	
Hygiene		Contains antimicrobial agents. This product has been independently tested and results demonstrate that it inhibits the growth of MRSA on the flooring. An effective cleaning regime is however, the most important defence against infection	
Electrical Behaviour		EN 1815 This product does not accumulate static charges above 2kV and is classified as 'antistatic'. For specialist applications where there is a requirement to dissipate the electrostatic charge, see the Polyflor ESD product ranges	

### Customer Support

For information regarding handling and installation, adhesives, maintenance, applications and chemical resistance, consult Polyflor Customer Technical Services on +44 (0)161 767 1912 or e-mail [tech@polyflor.com](mailto:tech@polyflor.com). 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 clarification regarding slip resistance, consult Polyflor Customer Technical Services.

For best results, flooring must be reverse laid.

Cutting via the Polyflor Design Service is not offered on this product.

Floorcare instructions are available on [www.polyflor.com](http://www.polyflor.com)



## Technical Considerations



### Slip Resistance Testing

#### Pendulum Wet Test

Polyflor ensures Polysafe Arena PUR and all other Polysafe ranges are checked against a variety of international test methods for slip resistance. The main test recommended and preferred by the HSE to make precision assessment of floor slipperiness is the Pendulum Co-efficient of Friction test. This is a portable unit that can measure live slip resistance on-site over the life of the floor by sweeping a swinging dummy heel over the surface, replicating a slipping foot. With safety flooring always tested in wet conditions using a Four S rubber slider (Slider 96) to represent a standard shoe sole of standard slip resistance, all Polysafe ranges including Arena achieve a Pendulum Test Value of 36+ to ensure a low slip potential classification is achieved in accordance with HSE Guidelines.

### The Ramp Test (DIN 51130 & AS/NZ 4586)

In contrast with the Pendulum, the Ramp Test is purely an ex-factory test protocol and is not practical to be replicated on site. This therefore takes no account of wear and maintenance on site so gives no reliable indicator of performance over the life of the floor. Typically safety floorings such as Polysafe Arena PUR achieve an R10 rating but sole reliance on this classification for specification should be avoided if a slip resistant surface is required. A product with a heavy emboss and no aggregate could still provide an R10 rating but this would be transient as once the emboss wears, a smooth finish will be left behind offering low friction in wet conditions.

### Surface Roughness

A complementary slip test method advocated by the HSE for use with the Pendulum Test is the measure of a product's surface roughness. A mean value of several peak to valley measurements is electronically calculated to generate a roughness value in microns. All Polysafe products meet a minimum of Rz  $\geq 20\mu\text{m}$  to ensure a low slip potential and provide suitable friction when the floor is in contact with contaminants such as water, coffee and soft drinks. The surface roughness test forms a key part of the Slips Assessment Tool (SAT), a computer software programme developed by the HSE that can be used on site to assess slip potential of flooring in specific use areas. This is seen as a useful complementary tool to aid specification but should not be used in isolation. The SAT Tool is available for free download from [www.hse.gov.uk/slips](http://www.hse.gov.uk/slips)

### EN 13845

Like all Polysafe ranges, Polysafe Arena PUR conforms to this European standard. Relating specifically to particle based safety flooring, the standard classifies products with an ESf rating to ensure the flooring provides enhanced slip properties for use with footwear. Part of this standard also encompasses stringent conformance to the 50,000 cycles abrasion test, demonstrating that particles and aggregates within the product are sufficiently durable to offer long term sustainable performance.

### Stain Resistance

Polysafe Arena's extensive appeal across the commercial and housing sector means regular exposure to everyday spillages and stains. This may be found in entrance areas where dirt and water contaminants are walked in from outside or in areas such as dining halls and serveryes where spillages fall onto the floor. Whilst entrance matting or a suitable dirt barrier system is always recommended at the threshold points of a building to minimise contamination, dirt is often unavoidable and is regularly trafficked from the outside. In these hygiene critical areas, Arena is supported by the incorporation of the exclusive Polysafe PUR maintenance enhancement to offer a floor that is both easy to clean and offers good resistance to dilute acids, alkalis, soaps and detergents. If required, chemical resistance charts are freely available by shade. Contact Polyflor Customer Technical Services on +44 (0)161 767 1912 for details.

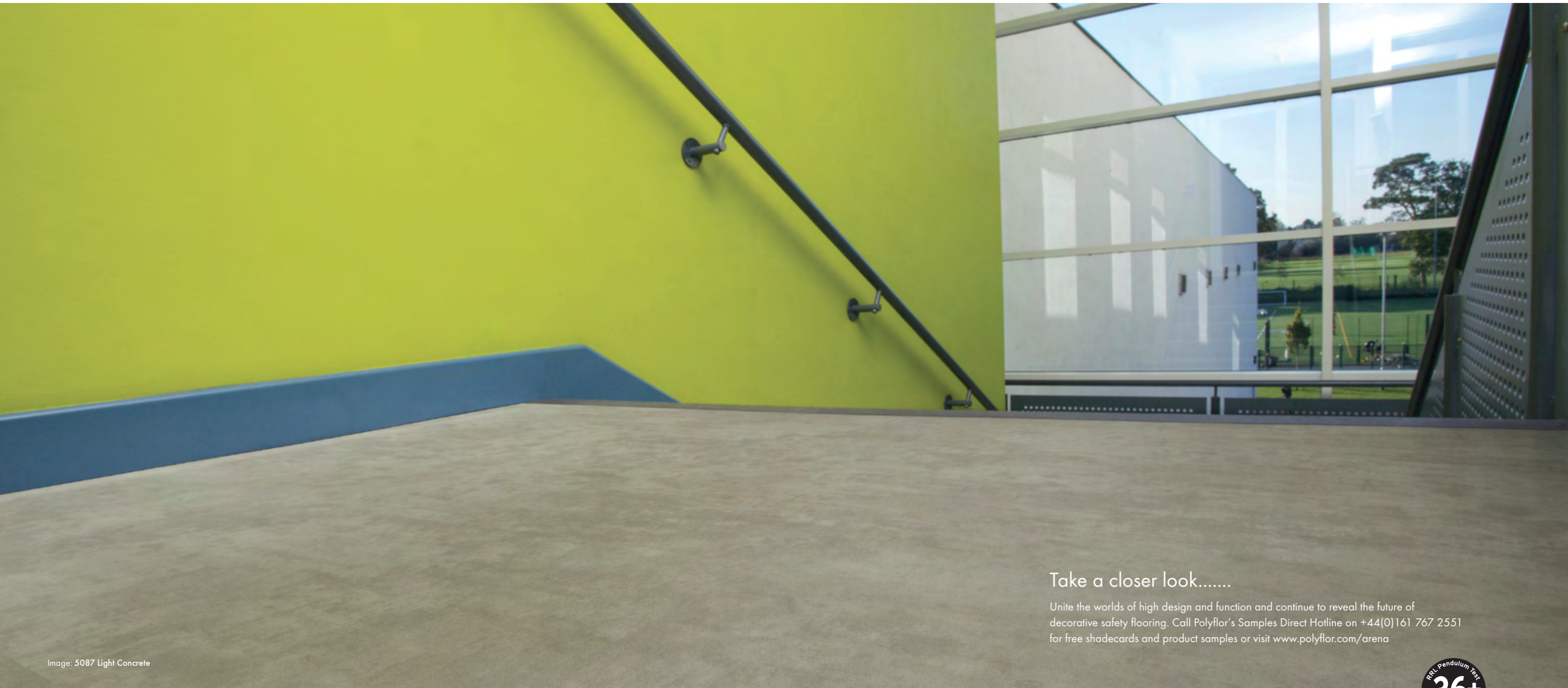


Image: 5087 Light Concrete

### Take a closer look.....

Unite the worlds of high design and function and continue to reveal the future of decorative safety flooring. Call Polyflor's Samples Direct Hotline on +44(0)161 767 2551 for free shadecards and product samples or visit [www.polyflor.com/arena](http://www.polyflor.com/arena)



[www.polyflor.com](http://www.polyflor.com)

The Polyflor website is the main resource centre for Polysafe Arena PUR product information. View technical information, product imagery or order free samples and literature online directly at:

[www.polyflor.com/arena](http://www.polyflor.com/arena)

Visit the website and sign up for free e-mail updates or subscribe to latest news RSS feeds



**samples direct** >>>> 0161 767 2551

To obtain free Arena product samples, shadecards and product literature contact the Polyflor Samples Direct Hotline on +44(0)161 767 2551 for door to door delivery

 Direct E-mail

Contact [arena@polyflor.com](mailto:arena@polyflor.com) with any Arena related questions

#### Polyflor Customer Technical Services Division

For advice on all technical product details on Arena, including handling and installation, suitable adhesives, maintenance, applications and chemical resistance, consult the Polyflor Customer Technical Services Department on +44(0)161 767 1912 or e-mail: [tech@polyflor.com](mailto:tech@polyflor.com)

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