



Forbo Flooring Systems is part of the Forbo Group, a global leader in flooring, bonding and movement systems, and offers a full range of flooring products for both commercial and residential markets. High quality linoleum, vinyl, needle felt and hardwood floors combine functionality, colour and design, giving you total flooring solutions for any environment.

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# safety vinyl

project vinyl

**surestep  
safestep**



SAFETY VINYL



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# Safer by design

Safety vinyl can be used wherever people work, learn, play or go about their daily business. Slip resistance is a paramount consideration in the creation of safe working and living environments. The Forbo Step collection consists of eight ranges of highly durable safety vinyl floor coverings combining outstanding slip resistance to recognised international standards with an extensive range of designs featuring fresh colours and contemporary styling, not usually associated with traditional safety flooring. Offering the most complete choice in function and design, Step will help you achieve reassuringly safe and aesthetically attractive interiors in a wide range of commercial, education, healthcare and retail interiors.

All the colours and patterns in the Step collection have been carefully co-ordinated, and the collection is available across a range of slip resistance ratings. All colours in our Safestep ranges are also available in Surestep allowing the creation of harmonious, colour co-ordinated interiors no matter how varied and demanding the range of tasks to be performed.



# Slip resistance

## A safer environment

The Step safety vinyl collection's 8 different ranges are designed to meet different slip resistance requirements for flooring. Surestep Original and Safestep achieve their slip resistance by incorporating into the wear layer either quartz or carborundum particles, or a combination of the two. The clarity achieved by designs such as Surestep Wood, Stone, Star and Colour, is achieved by using aluminium oxide which provides the same resilient performance. The result is safety flooring that is tough, long lasting and extremely wear resistant. All particles provide sustainable slip resistance that lasts throughout the life of the product.



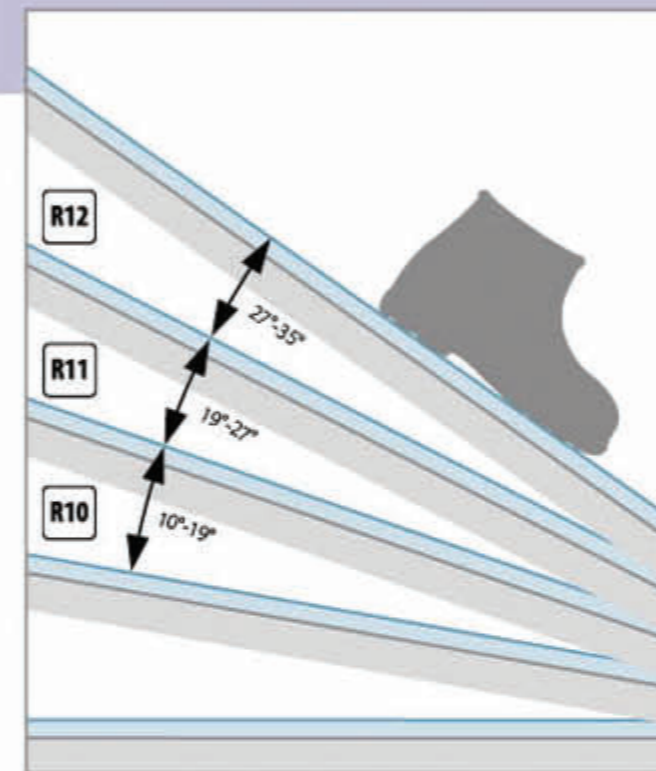
### One slip or trip accident occurs every three minutes\*

Responsible for over a third\* of all reported accidents that lead to injury, slips and trips are the most common cause of injuries in the workplace. In addition to the extra cost for both employers and society, the most important aspect is the human suffering caused by accidents due to slipping or tripping.

By choosing a Forbo Step safety floor in the appropriate environment the number of accidents caused by slipping can be reduced significantly. In the long run this will mean less suffering for individuals and a reduction of cost.

\*Source: Health and Safety Executive, UK

## Classification of slip resistance



### DIN 51130

Known as the "ramp test" and used to measure slip resistance. In simple terms, the angle of a ramp covered with the flooring being tested is increased until the person walking on it slips. The ramp is lubricated with oil and a profiled rubber soled boot is worn by the tester. The tested floor is given an "R" classification depending on the angle of the inclination at which the tester feels unsafe. The scale starts at R9 (the lowest slip resistance class) and runs to R13 (the highest slip resistance class). Step is classified between R10 and R12.

## HSE Compliance

The Health and Safety Executive (HSE) and UK Slip Resistance Group (UKSRG), measure slip resistance using the Pendulum test\*. This test measures the coefficient of friction of a floor surface and the results are used to provide a slip potential classification. A pendulum test value (PTV) of 36 or higher is classified as low slip risk. Micro surface roughness measurements can also be used alongside the Pendulum test to provide an additional indication of slip risk with different contaminants. For example, in wet conditions a surface roughness of 20 microns indicates a low slip risk (more viscous contaminants, such as oil, will require a higher surface roughness). All Step floors comply with HSE requirements and the construction of Step ensures sustainable slip resistance throughout the guaranteed life of the product

\*HSE Information sheet - Assessing the slip resistance of flooring

## EN 13845

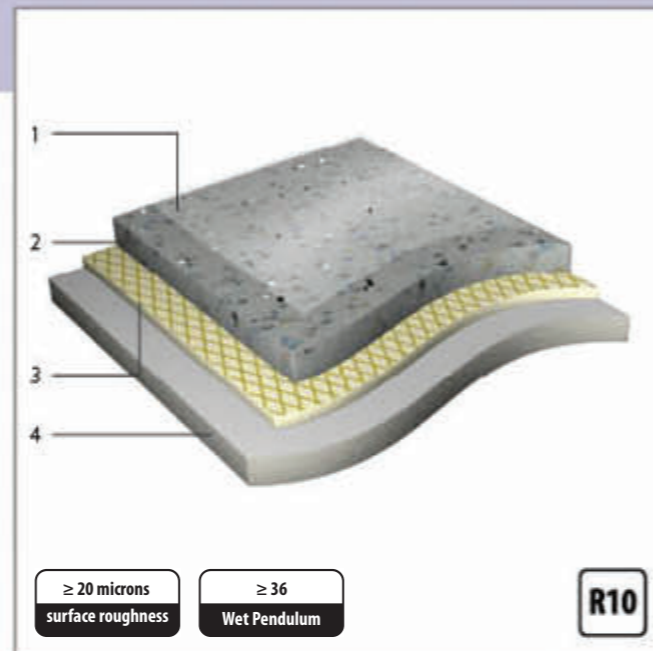
EN 13845 is the European Standard that ensures the sustainability of slip resistance in vinyl floor coverings. It concerns PVC floor coverings with particle enhanced slip resistance. This Standard specifies the requirements that must be met to ensure durable slip resistance in varying degrees of usage intensity. All Step floors comply with EN 13845.

# Product ranges

The 8 product ranges in the Step safety vinyl collection ensure safety in all applications.

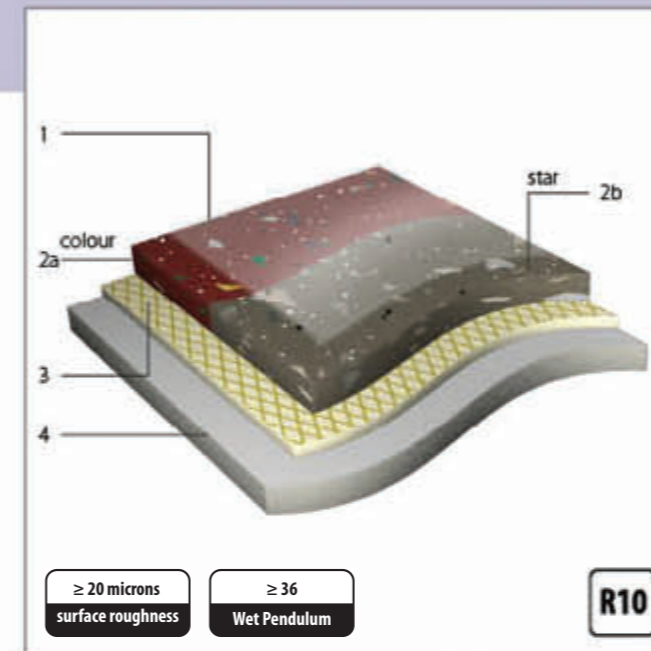
All R10 rated designs in the Step collection feature a PUR Pearl™ surface – a combination of embossing and lacquer that provides a distinctive, smooth and lustrous matt finish with high scratch, scuff and wear resistance.

Safestep R11, R12 and Grip have a PUR surface finish that ensures effective cleaning and maintenance on these rougher surfaces. Even the unique stud of Safestep Grip, the barefoot safety slip resistance range, has been designed not to capture dirt and for ease of maintenance.



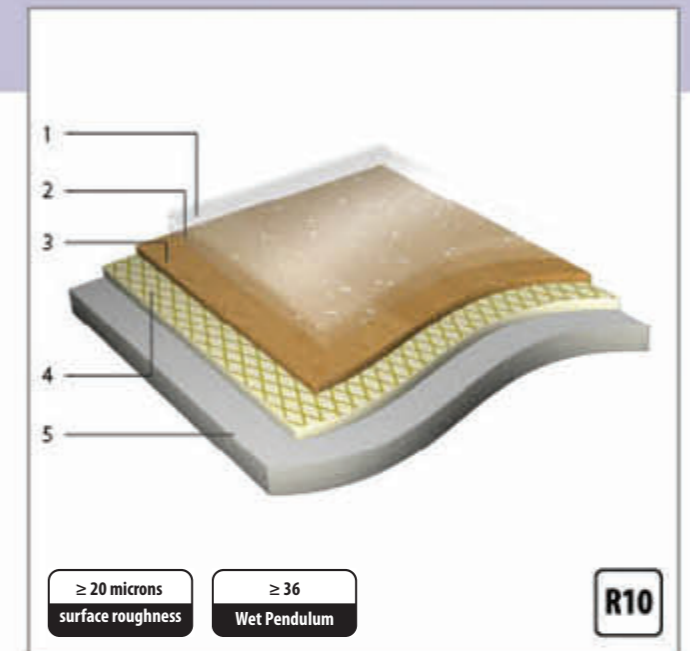
## surestep original

1. PUR Pearl™, PUR coating with matt embossing for easy cleaning and maintenance and a natural appearance
2. 0.7 mm 100% PVC wear layer with quartz and carborundum for durable slip resistance. Design layer, UV light resistant against fading
3. Flexible carrier for optimal dimensional stability
4. Backing with recycled content and roughened for easy installation



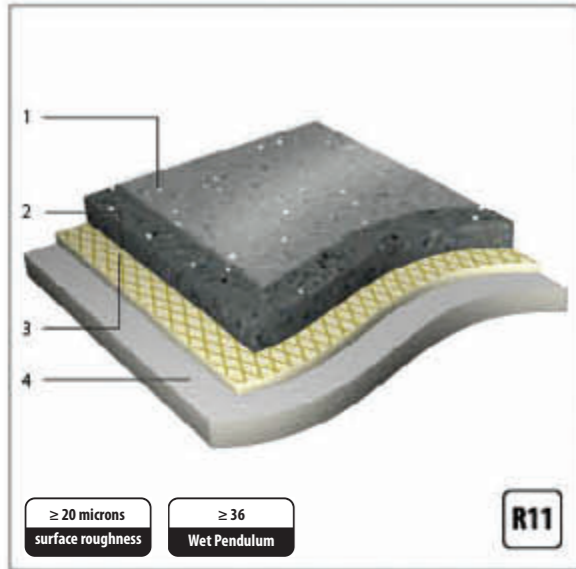
## surestep colour, surestep star

1. PUR Pearl™, PUR coating with matt embossing for easy cleaning and maintenance and a natural appearance
- 2a. Colour: 0.7 mm 100% PVC wear layer with aluminium oxide and coloured PVC chips for durable slip resistance. Design layer, UV light resistant against fading
- 2b. Star: 0.7 mm 100% PVC wear layer with aluminium oxide or carborundum with holographic and PVC chips for durable slip resistance. Design layer, UV light resistant against fading
3. Flexible carrier for optimal dimensional stability
4. Backing with recycled content and roughened for easy installation



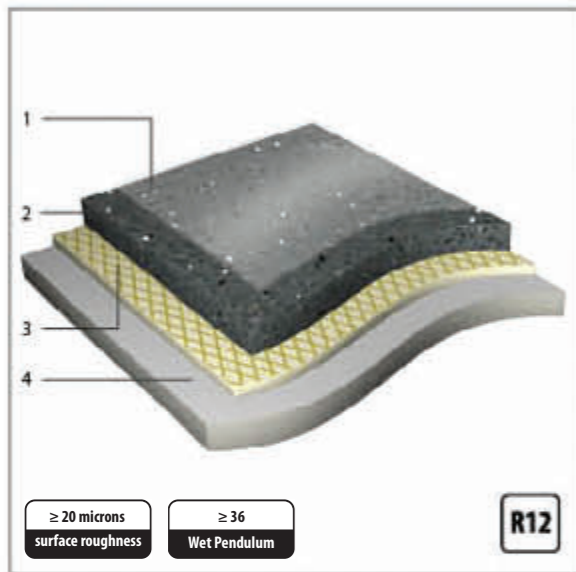
## surestep wood, surestep stone

1. PUR Pearl™, PUR coating with matt embossing for easy cleaning and maintenance and a natural appearance
2. 0.7 mm 100% PVC wear layer with aluminium oxide or carborundum for durable slip resistance
3. Design layer, UV light resistant against fading
4. Flexible carrier for optimal dimensional stability
5. Backing with recycled content and roughened for easy installation



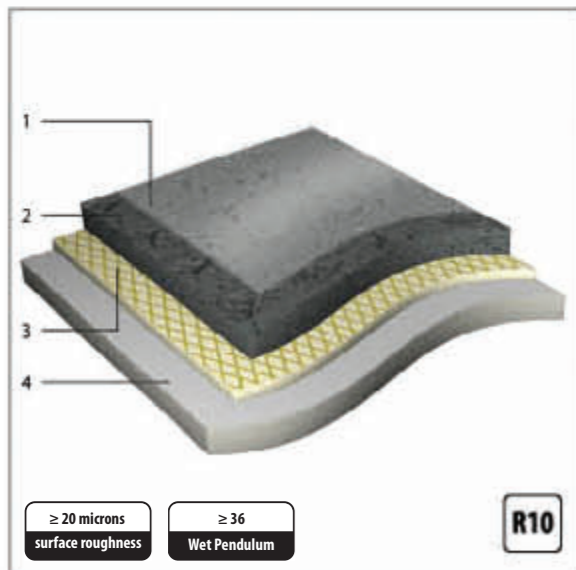
## safestep R11

1. PUR coating for easy cleaning and maintenance and a natural appearance
2. 0.7 mm 100% PVC wear layer with quartz and carborundum for durable slip resistance. Design layer, UV light resistant against fading
3. Flexible carrier for optimal dimensional stability
4. Backing with recycled content and roughened for easy installation



## safestep R12

1. PUR coating for easy cleaning and maintenance and a natural appearance
2. 0.7 mm 100% PVC wear layer with quartz and carborundum for durable slip resistance. Design layer, UV light resistant against fading
3. Flexible carrier for optimal dimensional stability
4. Backing with recycled content and roughened for easy installation



## safestep grip

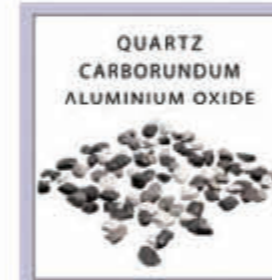
1. PUR coating for easy cleaning and maintenance and a natural appearance
2. Unique stud for bare foot anti slip properties. 0.7 mm 100% PVC wear layer with carborundum for durable slip resistance. Design layer, UV light resistant against fading
3. Extremely flexible carrier for optimal installation and dimensional stability
4. Backing with recycled content and roughened for easy installation

## Step safety collection benefits

- Extensive design range, including the natural designs of Surestep Wood and Stone
- In compliance with all the latest standards, with slip resistance from R10 to R12 and barefoot safety
- Compliance with HSE recommendations: wet pendulum test  $\geq 36$ , surface roughness  $\geq 20$  microns
- Unique combination of quartz and carborundum or aluminum oxide particles ensuring durable slip resistance
- Excellent durability due to 0.7 mm wear layer, wear class is highest with Group T rating
- Surestep Original, Colour and Star have static dissipative properties
- All ranges are antistatic
- Extremely high indentation resistance
- Easy to clean and low scuff marking due to PUR Pearl™ and PUR coating, perfect for easy cleaning and maintenance
- Matt appearance for a natural look
- Flexible and easy to install, especially Safestep Grip for wet areas

## Design freedom

- Colour coordinated with other Forbo Flooring collections
- 72 different colours, enabling creative solutions
- Non directional patterns
- Logos can be made by using aquajet technique
- Matching or contrasting colours of weld cables available



Surestep Original and Safestep achieve their slip resistance by incorporating into the wear layer either quartz or carborundum particles, or a combination of the two. Clarity in designs, such as Surestep Wood, Stone, Star and Colour, is achieved by using aluminium oxide, which achieves the same resilient performance. All particles are so hard that they cannot wear, providing slip resistance that lasts throughout the life of the floor.

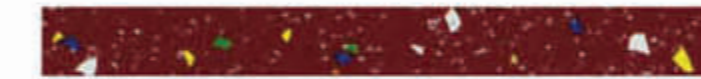
## Environmental performance

- Step is manufactured using the latest knowledge in PVC technology, using raw materials and processes that offer lowest possible environmental impact
- Step complies with the highest indoor air quality standards such as the German AgBB scheme
- Step is manufactured to an Environmental Management System compliant with ISO 14001
- Forbo is committed to Vinyl 2010; a voluntary initiative of PVC manufacturers to improve the sustainable profile of PVC products by stimulating recycling initiatives

Eight distinctive, durable product ranges. Together they make one outstanding safety vinyl collection.



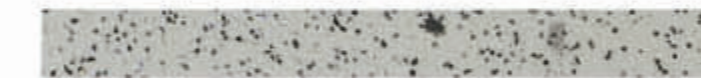
**surestep** original



**surestep** colour



**safestep** grip



**safestep** R11



**safestep** R12



**surestep** star



**surestep** wood



**surestep** stone

# Colour overview

Matching weld cables are available in all collection colours.

**surestep original** R10 PUR Pearl

≥ 20 microns surface roughness ≥ 36 Wet Pendulum

17121 dune

17102 smoke

17112 bianco

17100 fog

17114 sand

17150 oyster

17118 tundra

17125 mink

17183 pistachio

17147 brick

17189 petrol

17158 burgundy

17196 steel

17129 espresso

17172 sky

17173 storm

17176 marine

17179 navy

17199 charcoal

**surestep colour** R10 PUR Pearl

≥ 20 microns surface roughness ≥ 36 Wet Pendulum

8900 snow

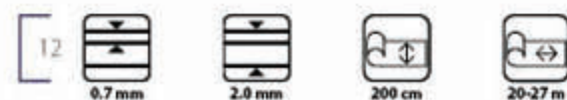
8935 corn

8955 pepper

8999 basalt

8994 shadow

8978 night



Matching weld cables are available in all collection colours.

**safestep grip** R10 PUR

≥ 20 microns surface roughness ≥ 36 Wet Pendulum

17394

17358

17302

17373

17325

17399

17396

17389

**safestep R11** R11 PUR

≥ 20 microns surface roughness ≥ 36 Wet Pendulum

8273

8202

8294

8296

8225

8299

8289

**safestep R12** R12 PUR

≥ 20 microns surface roughness ≥ 36 Wet Pendulum

8502

8594

8525

8599



Matching weld cables are available in all collection colours.

**surestep star** R10 PUR Pearl

≥ 20 microns surface roughness ≥ 36 Wet Pendulum

17600 milk

17613 clay

17601 trout

17693 concrete

17606 pewter

17626 umber

17695 mercury

17627 raisin

17698 carbon

17628 dragon



Matching weld cables are available in all collection colours.

**surestep wood** R10 PUR Pearl

≥ 20 microns surface roughness ≥ 36 Wet Pendulum

1832 light beech

1892 natural oak

1822 sunny beech

1891 rustic oak

1844 middle beech

1872 warm teak

1816 red cherry

1805 dark wenge

**surestep stone** R10 PUR Pearl

≥ 20 microns surface roughness ≥ 36 Wet Pendulum

1721 almond stone

1722 black stone

1732 rusty rock

1733 nero rock

1704 silver granite

1705 antracite granite

1718 gray concrete

1719 black concrete



# Service products

## Weld cables

In most application areas it is necessary or even mandatory to weld seams. Welded seams ensure high levels of hygiene because they make seams easy to clean while preventing water from penetrating the floor covering. Using different colours of weld cable can turn them into a decorative feature.

## Aquajet

Aquajet cutting technology enables reproduction of the most intricate designs and allows for endless creativity. A fine computer-controlled jet of water at very high pressure is used to cut through the material. Whether it is a thematic floor, a work of art or company logo, the possibilities are limitless.

## Adhesives

Forbo recommend our own Eurosafe 540 solvent-free, plasticiser-resistant adhesive.

## Forbo VinylBase Acoustic

For enhanced acoustic performance, Step safety vinyls can be combined with this supple underlay resulting in impact sound reduction up to 18dB.

Matching weld cables are available in all collection colours.

Surestep Wood	
1892	SW1892
1891	SW1891
1872	SW1872
1844	SW1844
1822	SW1822
1822	SW1822
1816	SW1816
1805	SW1805

Surestep Stone	
1733	SW1733
1732	SW1732
1722	SW1722
1721	SW1721
1719	SW1719
1718	SW1718
1705	SW1705
1704	SW1704

Surestep Colour	
8999	SW299
8994	SW294
8978	SW278
8955	SW255
8925	SW235
8900	SW200

Surestep Star	
17698	SW298
17695	SW295
17693	SW293
17628	SW228
17627	SW227
17626	SW226
17613	SW213
17606	SW206
17601	SW201
17600	SW200

Safestep Grip	
17399	SW299
17396	SW296
17394	SW17394
17389	SW289
17373	SW273
17358	SW258
17325	SW225
17302	SW202

Safestep R11	
8299	SW299
8296	SW296
8294	SW294
8289	SW289
8278	SW273
8258	SW258
8225	SW225
8202	SW202

Safestep R12	
8599	SW299
8594	SW294
8525	SW225
8502	SW8502



Service products 11

# surestep - durable and easily maintained

Surestep Original combines slip resistance with excellent maintenance properties and high durability due to the inclusion of quartz and carborundum. The other Surestep ranges, Colour, Wood, Stone and Star include aluminium oxide for clarity of design. Surestep can be installed in all general purpose areas requiring an R10 slip resistance. Surestep can also be easily maintained due to its unique PUR Pearl™ surface finish.



## surestep original

Lively, colourful and offering authentic, easily accessible designs for today. Multifunctional Surestep is available in 20 diverse colours, from light to dark and from deep rich colours to light tones.



17125

For more information about Service Products and System Solutions contact your sales office or visit the website [www.forbo-flooring.co.uk](http://www.forbo-flooring.co.uk)

16 17125

Surestep Original 17



17626

## surestep colour

Surestep Colour's outspoken primary colours and fresh, 'happy' patterns give a clean, crisp appearance that will enhance any environment. Positive, pure colours are easy to mix and match for a range of striking, optimistic effects.

## surestep star

Innovative and sophisticated, in line with today's interior trends. The holographic chip in Surestep Star gives an unexpected 3D effect and adds colour to the natural and neutral colour series. Tones of today, all with hints of grey, provide a uniquely refined identity.



17626





## **surestep** wood

Natural designs, close to nature, with a warm atmosphere. Surestep Wood offers authentic designs and lively structure with a natural grain. Surestep Wood is enriched by carborundum or aluminium oxide particles.



## **surestep** stone

Contemporary designs inspired by natural stone, featuring a combination of all over granite and tile designs. Surestep Stone's hard and solid appearance comes in traditional stone colours, enriched by both carborundum or aluminium oxide particles.



## safestep – enhanced slip resistance

Safestep offers a powerful combination of enhanced slip resistant properties, good hygiene and functional, modern designs in a range of matched and interchangeable colours with Surestep Original.

### safestep R11

A combination of high slip resistance and high hygiene standards, ideal for areas with a general need for enhanced slip resistance, e.g. those with oils, fats. Safe and long lasting, and with PUR coating for easy cleaning and maintenance. Available in 8 colours, all colour matched with Surestep Original.



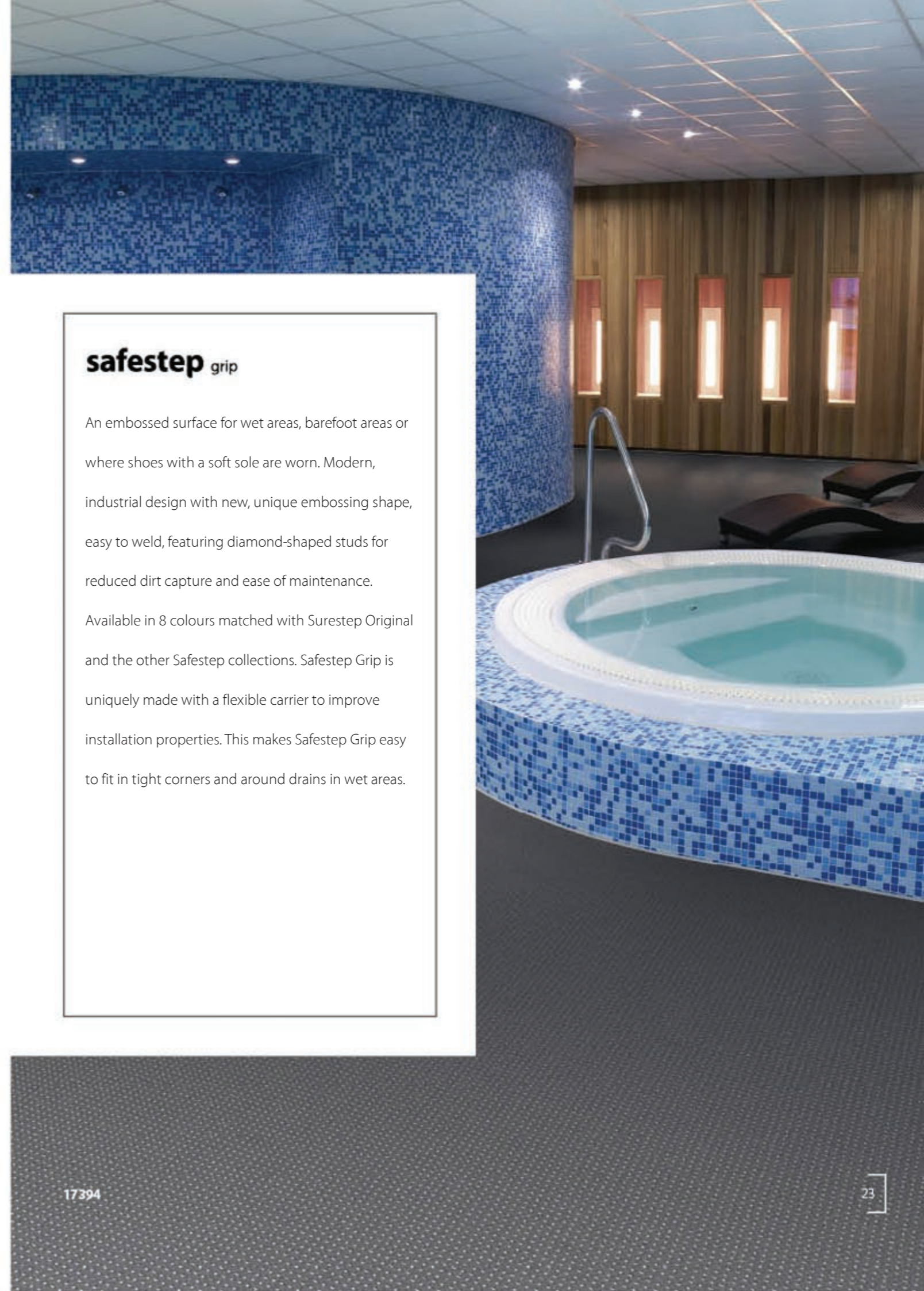
### safestep R12

Long lasting, this R12 rated floor ensures slip resistance under even the most extreme conditions, e.g. commercial kitchens, production environments. All 4 colours matched with Surestep Original. The PUR coating provides easier cleaning and maintenance.



### safestep grip

An embossed surface for wet areas, barefoot areas or where shoes with a soft sole are worn. Modern, industrial design with new, unique embossing shape, easy to weld, featuring diamond-shaped studs for reduced dirt capture and ease of maintenance. Available in 8 colours matched with Surestep Original and the other Safestep collections. Safestep Grip is uniquely made with a flexible carrier to improve installation properties. This makes Safestep Grip easy to fit in tight corners and around drains in wet areas.



# Forbo FloorCare method

The Forbo safety vinyl collections are easy to clean and maintain, thanks to their smooth and highly durable PUR coated surface.

## Surestep

### Cleaning after installation



- Clean the floor with Cleaner and a mop
- Pick up dirty water with a wiper and mop or wet vac
- Rinse with clean water and a mop
- Allow the floor to dry

### Regular cleaning



- Wipe with a dust mop and dust cloth, or vacuum the floor

### Periodic cleaning



- Spray clean with a rotary machine and a buffing pad, use Spray where necessary

### Occasional maintenance



- Scrub with Cleaner, a rotary machine and a scrub pad
- Pick up dirty water with a wiper and mop or a wet vac
- Rinse with clean water and a mop
- Allow the floor to dry

When intensive traffic is expected:

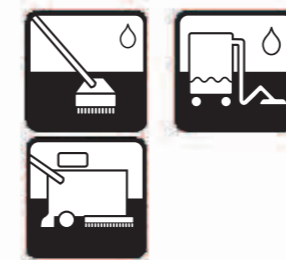
- Apply a full Spray-film
- Buff the Spray-film with a rotary machine and a buffing pad

#### Products

Forbo Cleaner is an effective and pH neutral cleaner. Forbo Spray acts both as a spray cleaner and as protection. Detailed information is available in our "Forbo FloorCare System" brochure. Please contact your sales office or download from [www.forbo-flooring.co.uk](http://www.forbo-flooring.co.uk). If you want to use alternative products, please consult your local supplier.

## Safestep

### Cleaning after installation



- Clean the floor with Cleaner and a brush
- Pick up dirty water with a wiper or wet vac
- Rinse with clean water and pick up the water
- Allow the floor to dry
- A combined scrubber-dryer may also be used

### Regular cleaning



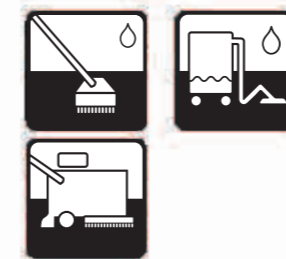
- Vacuum clean the floor with a brush attachment

### Periodic cleaning



- Clean the floor with Cleaner and a brush
- Pick up dirty water with a wiper or wet vac

### Occasional maintenance



- On a heavily soiled floor, allow a Cleaner solution to soak for 5-10 minutes
- Scrub with Cleaner and a scrub brush
- Pick up dirty water with a wiper or wet vac
- Rinse with clean water and pick up the water
- Allow the floor to dry
- A combined scrubber-dryer may also be used



OMA Architecture

## Forbo Flooring Collections

Forbo Flooring Systems offers you the most comprehensive range in commercial resilient floor coverings. Below you will find the overview of our core ranges.

	General purpose	Acoustic	Conductive	Dissipative	Tiles	Slip resistant	
						by embossing ≥ R10	by particles Safety flooring
Marmoleum / Artoleum	●				●		
Marmoleum Acoustic		●					
Marmoleum Ohmex				●			
Marmoleum Decibel		●					
Marmoleum Sport							
Marmoleum Dual					●		
Cork linoleum		●					
Eternal	●					●	
Smaragd	●			●		●	
Effect	●			●		●	
<b>Surestep Original</b>	●			●			●
<b>Surestep Colour</b>	●			●			●
<b>Surestep Star</b>	●			●			●
<b>Surestep Wood</b>	●						●
<b>Surestep Stone</b>	●						●
<b>Safestep R11</b>							●
<b>Safestep R12</b>							●
<b>Safestep Grip</b>						●	●
Sarlon Tech	●	●				●	
Sarlon Quartz		●					
Sarlon Traffic		●			●		
Eternal Decibel		●				●	
Allura	●				●		
Flex SL	●				●		
Colorex Concept	●				●		
Colorex SD				●	●		
Colorex EC			●		●		

## Technical specifications

Step meets the requirements of EN 649 and EN 13845

		<b>Surestep Original</b>	<b>Surestep Colour</b>	<b>Surestep Wood</b>	<b>Safestep R11</b>	<b>Safestep Grip</b>	<b>Safestep R12</b>
Total thickness	EN 428	2.0 mm	2.0 mm	2.0 mm	2.0 mm	2.0 mm	2.0 mm
Thickness wear layer	EN 429	0.7 mm	0.7 mm	0.7 mm	0.7 mm	0.7 mm	0.7 mm
Collection size		20/6/10	8/8	8	8	4	
Commercial very heavy	EN 685	Class 34	Class 34	Class 34	Class 34	Class 34	Class 34
Industrial heavy	EN 685	Class 43	Class 43	Class 43	Class 43	Class 43	Class 43
Roll width	EN 426	2.00 m	1.98 m	2.00 m	2.00 m	2.00 m	2.00 m
Roll length	EN 426	20 - 27 m	20 - 27 m	20 - 27 m	20 - 27 m	20 - 27 m	20 - 27 m
Total weight	EN 430	2.9 kg/m <sup>2</sup>	2.9 kg/m <sup>2</sup>	2.9 kg/m <sup>2</sup>	2.9 kg/m <sup>2</sup>	2.9 kg/m <sup>2</sup>	2.9 kg/m <sup>2</sup>
Dimensional stability	EN 434	< 0.2%	< 0.2%	< 0.2%	< 0.2%	< 0.2%	< 0.2%
Residual indentation	EN 433	0.02 mm*	0.02 mm*	0.02 mm*	0.02 mm*	0.02 mm*	0.02 mm*
Abrasion resistance	EN 660-1	Group T	Group T	Group T	Group T	Group T	Group T
Castor chair continuous use	EN 425	No effect	No effect	No effect	No effect	No effect	No effect
Light fastness	EN ISO 105 B-02	7	7	7	7	7	7
Flexibility	EN 435	ø 10 mm	ø 10 mm	ø 10 mm	ø 10 mm	ø 10 mm	ø 10 mm
Resistance to chemicals	EN 423	Very good	Very good	Very good	Very good	Very good	Very good
Slip resistance	DIN 51130	R10	R10	R11	R10	R12	
	EN 13845 Annex C	ESf	ESf	ESf	ESb	ESf	
	DIN 51097	-	-	-	Class C	-	
	Pendulum Test	≥ 36 Low slip risk**	≥ 36 Low slip risk**	≥ 36 Low slip risk**	≥ 36 Low slip risk**	≥ 36 Low slip risk**	≥ 36 Low slip risk**
	Surface roughness	≥ 20 microns	≥ 20 microns	≥ 20 microns	≥ 20 microns	≥ 20 microns	≥ 20 microns
Electrical resistance	EN 1081(R1;R2)	< 10 <sup>9</sup> Ω***	> 10 <sup>9</sup> Ω	> 10 <sup>9</sup> Ω	> 10 <sup>9</sup> Ω	> 10 <sup>9</sup> Ω	> 10 <sup>9</sup> Ω
Surface finish		PUR Pearl™	PUR Pearl™	PUR	PUR	PUR	

Step meets the requirements of EN 14041



Reaction to fire	EN 13501-1	B <sub>f</sub> -s <sub>1</sub>	B <sub>f</sub> -s <sub>1</sub>	B <sub>f</sub> -s <sub>1</sub>	B <sub>f</sub> -s <sub>1</sub>	B <sub>f</sub> -s <sub>1</sub>	B <sub>f</sub> -s <sub>1</sub>
Slip resistance	EN 13893	DS: > 0.50	DS: > 0.50	DS: > 0.50	DS: > 0.50	DS: > 0.50	DS: > 0.50
Body voltage	EN 1815	< 2kV	< 2kV	< 2kV	< 2kV	< 2kV	< 2kV
Thermal conductivity	EN 12524	0.25 W/m·K	0.25 W/m·K	0.25 W/m·K	0.25 W/m·K	0.25 W/m·K	0.25 W/m·K

\* typical value

\*\* UK Slip Resistance Group guidelines (wet test)

### Recommended Adhesives

Our recommended adhesive for the safety vinyl collection is Eurosafe Special 540. For Surestep static dissipative installation\*\*\* please contact customer services for further information.

### Service products

As a total flooring solutions provider, Forbo offers a collection of products to complement the installation, finishing and maintenance of our products. An optimal assortment of adhesives, levelling compounds, primers, welding rods, subfloors and installation tools can be offered. To give the floor the finishing touch, we provide a collection of skirtings, profiles and stair nosings.