

# Safety at work - it's in all our best interests



## What are you obliged to do by law?

### As an employer...

What does the law require the employer to do about reducing the potential of slips and trips?

**“The law requires that floors must not be slippery, so they put people's safety at risk”**

HSE – “Assessing the slip resistance of flooring”

The HSE has embarked on a Priority Programme to reduce slips by ensuring clients and specifiers assess risks and put preventative measures in place. This programme includes advertising, education and enforcement action.

(Visit [www.hse.gov.uk/slips](http://www.hse.gov.uk/slips) for more information.)

“Employers have responsibilities for the health and safety of their employees. They are also responsible for any visitors to their premises such as customers, suppliers and the general public.” There is a duty to “make floors, walkways, stairs, roadways etc safe to use”.

“The floors of workplaces must have no dangerous bumps, holes or slopes and must be fixed, stable and not slippery.”

EU Directive 89/391/EEC on Health and Safety at Work and Council Directive 89/654/EEC 1989 concerning the minimum safety and health requirements for the workplace.

### As a designer...

The client, specifier and supplier all have a role to play. Since these regulations were updated in April 2007, the designer has had a legal duty to ensure the safety of people using the buildings they design.

According to the Construction (Design and Management) (CDM) Regulations 2007, the designer must

- make clients aware of their duties
- give due regard to health and safety in design work
- provide adequate information about the health and safety risk of the design to those who need it
- co-operate with the planning supervisor and, where appropriate, other designers involved in the project

Designers now have a legal responsibility to “avoid foreseeable risks to the health and safety of any person using a structure designed as a workplace”. Designing buildings to avoid the risk of slips and trips is therefore an important obligation, covered by UK law.

When it comes to the design of a building, at Altro we have thrown all our resources into offering designers a full range of safety flooring that enables those responsible to comply with Health and Safety requirements.

## Slips and Trips – the growing awareness

### Slips and trips cost

Slips and trips are a major cause of injury and absence from work. A slip and trip accident is recorded every 3 minutes. Slip and trip accidents are the most common cause of injury in the workplace across Europe.

Over 36% of all accidents that lead to injury in the UK are caused by slips and trips.

According to the Health & Safety Executive, slips and trips

- are the most common cause of injuries in UK workplaces
- cause almost 11,000 major injuries each year
- cost employers over £500 million each year
- cost the health service £133 million each year
- cause 55% of all accidents in education

### Slips and trips - vulnerable groups

Slips and trips are the leading source of injury, disability, lifelong impairment and death for the elderly, infirm and young. The EU Campaign for a Safer Europe states that most injuries are preventable and aims to reduce accidents among vulnerable groups by 25% by 2012.



### Making the floor a priority – the danger area for slips

The floor surface in any environment is vital to the successful reduction of slip incidents. If you can minimise risk in this area you are well on your way to creating an accident-free zone.

### Flooring – Risk factors associated with slipperiness

Even a floor with little grip may pose no threat in perfect environmental conditions. However, conditions can change and this can have a marked effect on the slipperiness of a floor.

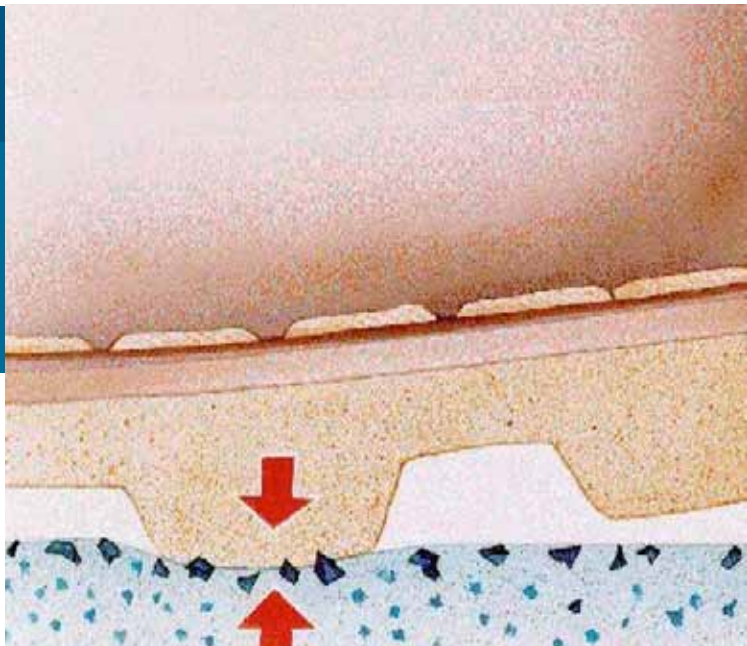
Things to be aware of when assessing the potential slipperiness of floors:

- leaks, spills and splashes
- wet processes
- rain, mud
- unsuitable entrance matting
- sloping surfaces
- wet floors following cleaning
- unsuitable footwear for floors
- unsuitable floors (e.g. glossy or polished surfaces)
- dust and other dry contaminants
- leaking roofs or condensation from pipework

To find out more, please request a copy of the Slips and Trips brochure or download it from [www.altro.com](http://www.altro.com)



# Safety flooring - how does it work?



## Safety Flooring Collection

Altro's unique, patented construction of flexible, high grade vinyl with slip-resistant grains throughout the wear layer of the safety flooring, ensures a durable surface that is slip-resistant for the life of the flooring.

### How vinyl safety flooring works

Altro safety flooring appears smooth on the surface but provides a high level of slip resistance when walked on. The pressure created by walking over safety flooring causes the aggregates in the flooring to stand proud and rub against the shoe, creating friction. Because of this, Altro safety flooring remains slip-resistant, even with spillages upon it.

### Why safety flooring

- Smooth flooring can be easy to clean but not slip-resistant when wet
- Ceramic safety flooring can be slip-resistant but the relief and grout can make it difficult to clean
- Altro safety flooring provides excellent slip resistance; the smooth surface makes it easier to clean, while the integral roughness of the aggregates provides slip-resistance, even with spillages

### Why Altro safety flooring

Altro slip-resistant safety flooring is a modern solution, meeting the highest standards of safety and hygiene.

- Slip-resistant, even when wet, throughout lifetime of floor
- Impervious surface, grout-free
- Coves to wall joints for rounded corners
- Contains Altrosan integral bacteriostat to combat bacterial growth
- Incorporates Altro Easyclean Maxis Technology for improved cleanability - new PUR option available too
- Resilient surface, comfortable underfoot, contributes to reduced ambient noise levels
- Homogeneous and heterogeneous options available in high quality PVC, which have aggregates throughout the wear layer of the floor, to guarantee long-lasting performance
- Options for specialist applications available



### Science behind Altro safety flooring

- Varieties of aggregate (including silicon carbide, quartz and aluminium oxide) are embedded in sheet vinyl to prevent slips and falls
- Integral bacteriostat and fungicide are incorporated into the material
- Slip-resistant and hygienic properties throughout
- High quality reinforced glass fibre scrim provides strength and dimensional stability
- Built-in advanced cleaning technology

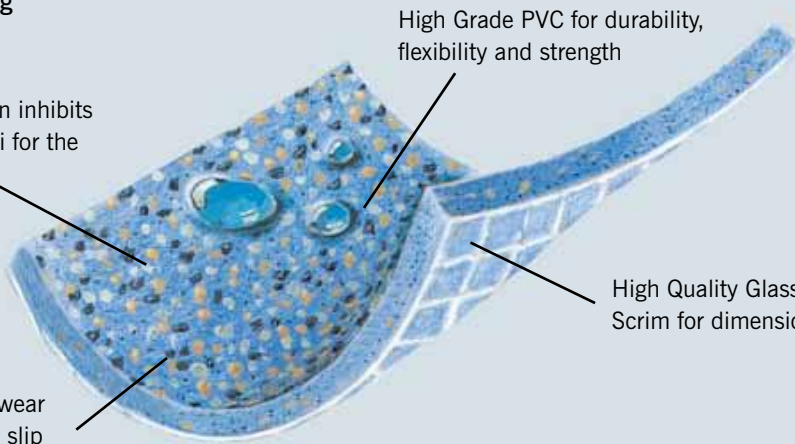
## Traditional safety flooring

Integral bacteriostat Altrosan inhibits growth of bacteria and fungi for the lifetime of the product

High Grade PVC for durability, flexibility and strength

High Quality Glass Fibre Scrim for dimensional stability

Aggregates throughout the wear layer of the floor for lifelong slip and wear resistance



## Meet Paul Gardner – Technical Services Manager



**Q - How was the revolutionary adhesive-free Altro XpressLay™ developed?**

A - "Altro's Technical Services Team consists of ex-floor layers, who have dealt with issues on a daily basis and seen how the industry works. We came up with the idea for Altro XpressLay because we have a close association with our customers and understand fitters' needs. I could see that if we could manufacture an all in one safety flooring, it would benefit our customers.

"Altro as a company, right up to the CEO, were prepared to take a chance on this product. You stake your company's name and reputation on a product's success. A more conservative company would not have been prepared to take that risk."



# Slip resistance tests

## Precision assessment of slipperiness

As a result of Altro's research and experience in the market, we consider that the following represent an overview of the most common and reliable methods of testing slip resistance internationally. These tests give consistent results and are portable, so they can measure slip potential on site at any time during the life of the flooring.

## Slip resistance tests

### Tests in Europe

There are two European standards (ENs) that have been developed by the European Committee for Standardisation (CEN), that have to be satisfied and are part of EN 14041, which is the CE label standard for resilient, textile and laminate floor coverings.

These two tests are:

- EN 13893 – a pull sled test where the requirements are a coefficient of friction of  $\geq 0.30$
- EN 13845 Annex C – a ramp test similar to DIN 51130 and DIN 51097 using water and soap as the contaminant.

For barefoot areas the requirement is  $\geq 15^\circ$  and for shod\* areas  $\geq 20^\circ$

It is compulsory for manufacturers like Altro to test to and pass these standards, if they are going to claim that flooring is slip-resistant and can be sold in European countries.

*\*shod areas are areas where people normally wear shoes.*

### Pendulum TRRL BS7976

The 'pendulum' coefficient of friction test is based on a swinging, dummy heel (using a slider made of a standardised rubber soling material) which sweeps over a set area of flooring in a controlled manner. The slipperiness of the flooring has a direct and measurable effect on the pendulum value. Results should be interpreted using the information in the table.



Potential for slip classification based on pendulum test values:

Pendulum value / Slip resistance value (TRRL)	Potential for slip
0 - 24	High
25 - 35	Moderate
36 +	Low

All Altro safety flooring for shod areas exceeds the 36+ rating, indicating the lowest potential for slip.

### Surface microroughness meter

An indication of slipperiness may be obtained by measuring the surface roughness of flooring materials. This test uses a microroughness meter which measures in Rz microroughness values (microns). This test is used to examine on-going slip resistance on site, in conjunction with the pendulum test when required. Results should be interpreted using the information in the table below.



Potential for slip classification based on Rz microroughness values (application for water-wet low activity pedestrian areas):

Rz surface roughness (microns)	Potential for slip
Below 10	High
10 or above	Moderate
20 or above	Low

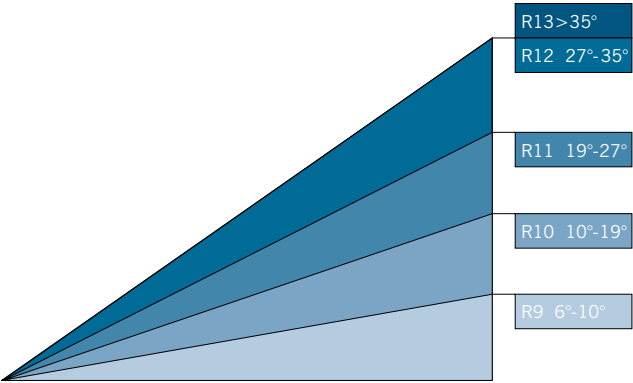
A surface roughness of 20 microns or above implies low slip risk.

In most circumstances, both pendulum Coefficient of Friction (CoF) and surface microroughness readings are required to give an accurate indicator of floor surface slipperiness.

### The ramp test

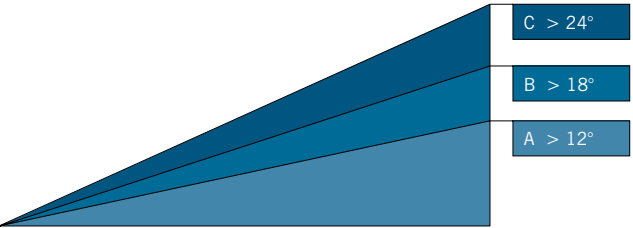
The ramp test (DIN 51130) is widely used and its 'R' values are quoted by most flooring companies. R9-R12 ratings are based on angle measurements, where an operator stands on a ramp, which is covered in oil. While the ramp test is a useful measure, it cannot be replicated on site.

### Ramp Test - Slip Angle



R9 is the lowest rating on the R scale, with a slip angle of only 6°, a rating found even in smooth vinyl flooring. All Altro safety flooring is rated R10 or above, with one achieving a rating of R12, making it suitable for greasy environments including professional kitchens.

A barefoot version of the test (DIN 51097) also exists, where the ramp is covered with water.



Altro Marine™ 20 / T20 barefoot flooring is rated C on DIN 51097, the highest slip resistance rating on the scale.



## Slips and trips

'As New' floor measurements can become obsolete in weeks. Many supposed slip-resistant floors have a factory-finished coating which may wear off to leave a less slip-resistant surface. Altro's safety flooring technology is designed to maintain its slip-resistance throughout the life of the product. If you require further information, please contact your Altro Representative.

# Highlight on Sectors



## Tough and functional, without compromising on design

### Healthcare

Altro safety flooring takes pride of place in any care home or hospital design scheme. It offers a watertight, impervious system, making it ideal for wet rooms including bathrooms, barrier-free shower rooms and catering areas. The Altro safety flooring range has inherent hygiene qualities, due to the incorporation of Altrosan, which inhibits bacterial growth and minimises the risk of hospital borne infections and cross-contamination.

Altro have developed a range of resilient safety flooring to live up to your sense of style, without compromising on performance. It is ideal for areas such as receptions, foyers, visiting areas, patient treatment rooms, corridors, communal rooms and bedrooms in care homes; areas where the need for slip resistance, hygiene, durability and comfort is paramount. The Altro safety flooring range offers a superior combination of these features, compared to that provided by carpets or smooth floors.

With a specialist range of 2-4mm safety flooring, you can choose a design varying from the traditional to the modern, the regular to the homely. Furthermore, you can rest assured that you will satisfy your duty of care and meet your standards for hygiene, with flooring designed for ease of cleaning and maintenance.

### Education

Altro bring you interior surfaces that deliver a safe flooring solution, while creating stylish, dirt-hiding and stimulating environments for the education sector. We offer a wide range of colour options to suit any mood or application – from entrance foyers and corridors to changing rooms and classrooms.

The safety of the young is a particular focus of the EU Campaign for a Safer Europe. The number of accidents in Europe involving children, adolescents and young adults is high and the long-term consequences not only affect people's lives, but have financial implications too in terms of continual healthcare costs. A tough flooring solution, that has safety as its top priority, reduces the slip risk, which is a major cause of accidents. Our construction of flexible, high-grade vinyl incorporating mineral grains throughout the thickness, not only delivers slip resistance and a durable surface, but also peace of mind.

To create an integrated safety flooring and hygienic wall cladding solution, see pages 132-161 for Altro Whiterock products.

### Food, drink and hospitality

Altro safety flooring is durable for hard-working environments and has been put through its paces by the food and drink industry for the past 50 years.

Altro's unique construction provides a slip-resistant, resilient and durable safety flooring, which is ideal for use in greasy and wet environments, while providing a surface that performs to the highest standards of hygiene and maintenance. The different thicknesses of flooring make the range suitable for a variety of locations.

Floorings with medium to high slip resistance ratings provide the right balance between minimising slip risk and good cleanability, making them the perfect solution for the unique requirements of different food preparation environments.

Fully bonded vinyl flooring with hot welded joints can provide a watertight and tankable system. The addition of Altrosan™ bacteriostat is proven to inhibit the growth of bacteria. All Altro safety flooring benefits from either Altro Easyclean Maxis PUR, Altro Easyclean Maxis Technology or Altro Easyclean Original Technology, providing varying levels of improved cleanability to suit your requirements – see each product page for details.

Whether used in food and beverage factories, slaughterhouses, bakeries, commercial kitchens, serveries, bars or storerooms, Altro have a specialist solution for any project, where food or drink is prepared or processed.

### Leisure and Retail

For safety flooring with impact, Altro offer a complete range of contemporary, traditional, minimalist and striking flooring solutions, which make a statement in any retail or leisure setting.

Durable, hard-wearing, hygienic surfaces, which offer slip resistance and comfort underfoot are among the qualities which make Altro safety flooring perfect for areas such as shops, display areas, foyers, receptions, showers, changing rooms and pool surrounds.





# NEW Altro Easyclean Maxis PUR™ Technology

Another industry first! Ground-breaking PUR, proven durability and performance

We are proud to launch a vanguard new PUR Technology to bring you many industry-leading performance benefits. Our belief in our new Altro Easyclean Maxis PUR Technology is so great that we are backing it with a no-quibble Lifetime Pledge. Simply subject it to normal usage and clean it according to our instructions and you'll be delighted with the level of performance not just for the warranted life of the product, but for the expected lifetime of the product too. You can buy with confidence, knowing that your choice of product is fully backed by the Altro Assurance of Customer Satisfaction.

## Altro Easyclean Maxis PUR Technology is unique in the market.

This latest development in our Altro Easyclean suite of technologies affords

- Industry-leading ease of cleaning
- Ground-breaking long-term cleanability
- Industry-leading cleaning and maintenance cost savings
- Ground-breaking long-term slip resistance
- Ground-breaking long-term durability
- Ground-breaking long-term low dirt pick-up
- Ground-breaking colour retention

## How have we done it?

Advanced PUR Technology

- Incorporated throughout the wear layer to ensure unparalleled performance for the life of the product
- Improved structure to prevent dirt retention around slip resistance particles, unlike conventional safety flooring and standard PURs
- Slip-resistant particles throughout the product for guaranteed slip resistance, regardless of degree of wear

Our PUR Lifetime Pledge ensures peace of mind. You can rest assured that your flooring will retain its good looks; your choice of pale or vibrant colours will not let you down in high traffic areas and save you up to 60% on cleaning and maintenance costs during the lifetime of the product compared to non PUR-treated safety flooring.

## Key benefits for you of Altro Easyclean Maxis PUR Technology

### Peace of mind

- Proven ground-breaking PUR Technology – rigorously tested to ensure performance for the life expectancy of the product
- Tests prove unrivalled long-term slip resistance
- Tests prove unrivalled long-term durability

### Extends the uses of safety flooring and lighter colours

- Ideally suited to busy areas on public display – enables you to use light colours in new and more demanding environments

### Keeps your floor looking pristine

- Tests prove unrivalled low dirt pick-up for improved long-term cleanability; your flooring is easier to clean and looks cleaner between cleans
- Tests prove unrivalled colour retention; your colours and patterns will stay looking new for longer
- Tests prove resistance to most staining and chemicals, ensuring appearance retention and cleanability

### Saves you money

- Requires a less stringent cleaning regime – using less water and fewer chemicals, keeping your environmental impact and cleaning budget to a minimum
- Significant maintenance savings over traditional and non PUR treated safety flooring products of up to 60% over a 15 year life cycle period

UP TO  
**60%**  
**SAVING**  
ON MAINTENANCE  
COSTS

The Altro Suprema II colour palette was designed to support the interior trend needs of now and the future.

They have been designed with global architects and designers in mind and a wish to continue to create unique and technically superior safety flooring with Altro.

Sonia Novak  
Creative Director, BrindleyNovak Consultancy





Altro Suprema™ II

Slip resistance:	TRRL ≥ 36	DIN 51130	R10
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Safety  
Flooring

**NEW**  
40 colours and  
easier to clean



Mercy Hospital, USA. Altro Suprema II edged with Altro Timbersafe II

Colour your world with the range that offers the broadest palette on the market plus Altro Easyclean Maxis PUR Technology

Offering you an impressive palette of 40 colours, design-led Altro Suprema II creates just as many moods – from subtle and understated to bold and inventive. It is perfect for areas where you historically wouldn't expect to see a safety floor, or for areas where you would not have previously dared to specify light colours.

Altro Suprema II has been produced in response to global customer feedback. It has been developed in consultation with architects, end users and colour consultants, taking into account not just current design requirements but future colour and interior trends.

The scope of the range, enables the choice of colour to become a decisive factor when specifying safety flooring. Altro Suprema II will allow you to co-ordinate your safety flooring not only with existing décor but also with daring colourways, traditionally served by alternative types of flooring.

- Incorporates Altrosan bacteriostat for enhanced hygiene

Contributes to reducing the environmental impact of your specification:

- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

Typical applications





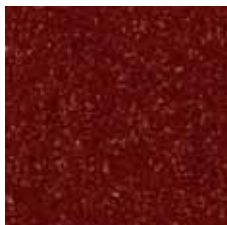


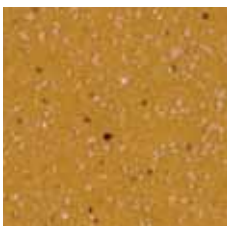
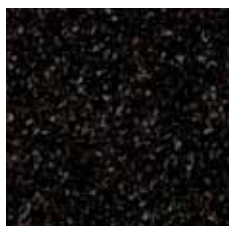
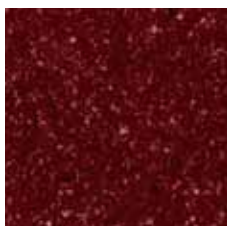




- receptions
- meeting rooms
- foyers
- corridors
- circulation areas
- hospital wards
- education
- healthcare
- leisure
- retail
- offices

Please see product selector on pages 14-15 for full details.

Dimensions: 20 x 2m	Format: Roll	Thickness: 2mm
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Safety  
Flooring

			
	<b>Wheat SU2051</b> WR281 A1M225	<b>Prairie SU2044</b> WR279 A1M20	<b>Loam SU2047</b> WR260 A1M260
	LRV 36	LRV 31	LRV 8
			
<b>Parchment SU2041</b> WR267 A1M20	<b>Paprika SU2043</b> WR278 A1M42	<b>Oatmeal SU2046</b> WR265 A1M265	<b>Taupe SU2040</b> WR282 A1M239
LRV 45	LRV 13	LRV 38	LRV 23
			
<b>Honey SU2053</b> WR152 A1M152	<b>Cocoa SU2060</b> WR62 A1M62	<b>Poppy SU2045</b> WR280 A1M238	<b>Calico SUI2069</b> WR283 A1M20
LRV 32	LRV 10	LRV 10	LRV 52
			
<b>Owl SUI2068</b> WR20 A1M20	<b>Sugar SU2042</b> WR284 A1M01	<b>Cotton SUI2071</b> WR284 A1M01	
LRV 40	LRV 65	LRV 65	

Continued overleaf...

Continued overleaf...



Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: LRV = Light Reflectance Value, WR = Weldrods, A1M = Mastic

For an unobtrusive appearance, colour matched weldrods and mastics are available.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



Altro Suprema™ II Continued

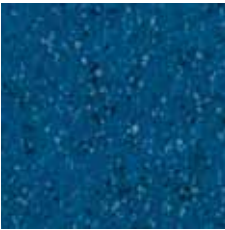
28

Safety  
Flooring



Olive SU2048  
WR263 A1M89

LRV 14



Caspian SU2038  
WR194 A1M71

LRV 18



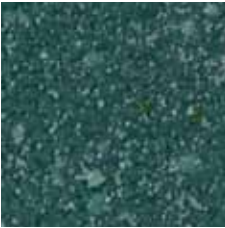
Bluebird SU2037  
WR231 A1M73

LRV 10



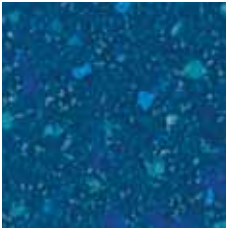
Vine SU2035  
WR233 A1M233

LRV 20



Meadow SUI2072  
WR233 A1M233

LRV 21



Bluewater SUI2073  
WR194 A1M71

LRV 17



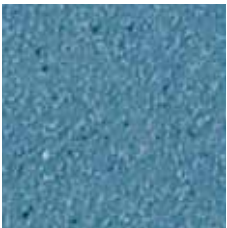
Fennel SU2049  
WR262 A1M154

LRV 25



Aegean SU2057  
WR270 A1M56

LRV 23



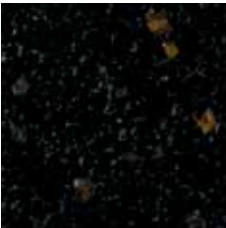
Bubble SU2039  
WR285 A1M203

LRV 34



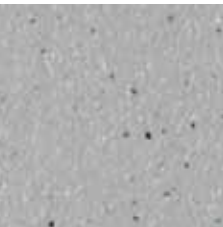
Flint SU2034  
WR82 A1M82

LRV 13



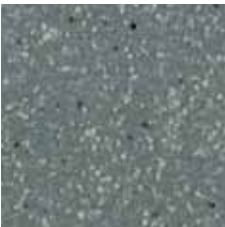
Lava SUI2070  
WR260 A1M260

LRV 8



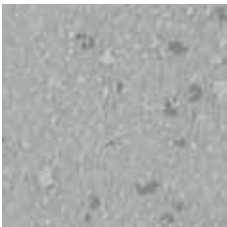
Dew SU2036  
WR191 A1M191

LRV 45



Wolf SU2050  
WR261 A1M81

LRV 29



Moon SUI2065  
WR191 A1M191

LRV 44



Please see product selector on pages 14-15 for full details.

Dimensions: 20 x 2m

Format: Roll

Thickness: 2mm

Slip resistance:

TRRL ≥ 36

DIN 51130

R10



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Safety  
Flooring



Raven SU2054  
WR277 A1M100

LRV 7



Shell SU2055  
WR268 A1M79

LRV 39



Shadow SU2056  
WR269 A1M84

LRV 24



Platinum SUI2064  
WR201 A1M84

LRV 24



Fossil SUI2067  
WR232 A1M82

LRV 12



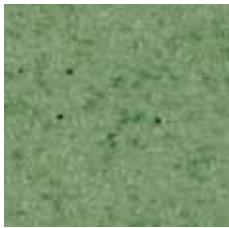
Berry SU2059  
WR275 A1M44

LRV 8



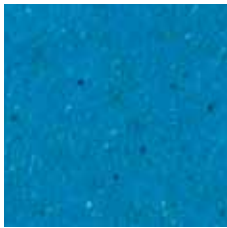
Grape SU2058  
WR274 A1M34

LRV 7



Melon SU2061  
WR271 A1M271

LRV 33



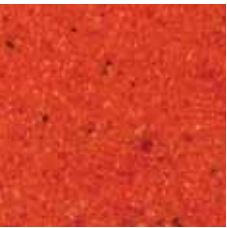
Malibu SU2062  
WR272 A1M272

LRV 26



Flamingo SU2063  
WR276 A1M276

LRV 16



Tangerine SU2052  
WR273 A1M273

LRV 20



EN14041  
0120  
GB06/72664

Manufactured by:  
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SG6 1NW  
United Kingdom

Product information Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: LRV = Light Reflectance Value, WR = Weldrods, A1M = Mastic

For an unobtrusive appearance, colour matched weldrods and mastics are available.

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Altro Timbersafe™ II

Slip resistance:	TRRL ≥ 36	DIN 51130	R10
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Altro Timbersafe II features nine finishes of true wood-look, sparkle-free safety flooring for busy, public areas where spills may create a slip hazard. These warm, natural tones create welcoming yet practical environments and are ideal where safety and aesthetics cannot be compromised.

The new extended width of 2 metres means that Alto Timbersafe II now conforms to standard safety floor widths. Making area calculations is therefore standardised and excess waste avoided.

With Alto Timbersafe II, you will demonstrate a high level of duty of care; providing flooring boasting excellent slip resistance and meeting strict European VOC emission standards.

This range contains Alto Easyclean Maxis™ Technology for superior cleanability and colour retention; in addition, less water and detergent are required when cleaning.

Contributes to reducing the environmental impact of your specification:




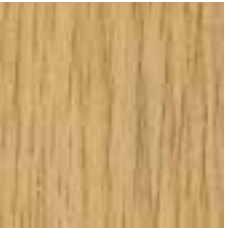





- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

Typical applications:

- busy public areas
- corridors
- wards
- shops
- cafes
- receptions

Please see product selector on pages 14-15 for full details.

Dimensions: 20 x 2m	Format: Roll	Thickness: 2mm
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<b>Rustic Pine TS2021</b> WR226 A1M226 LRV 29	<b>Fruit Wood TS2023</b> WR259 A1M225 LRV 27	<b>Blond Oak TS2016</b> WR225 A1M225 LRV 37	<b>Classic Oak TS2017</b> WR15 A1M15 LRV 28
			
<b>Rich Walnut TS2024</b> WR227 A1M227 LRV 11	<b>Traditional Oak TS2018</b> WR16 A1M258 LRV 15	<b>Mellow Beech TS2020</b> WR224 A1M224 LRV 36	
			
<b>Warm Cherry TS2022</b> WR160 A1M160 LRV 13	<b>Golden Beech TS2019</b> WR171 A1M246 LRV 22		





Slip resistance:	TRRL ≥ 36	DIN 51130	R10
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samples@altro.com



This safety flooring boasts a subtle, textured-look pattern, which camouflages soiling, making it ideal for high traffic areas. It features Altro Easyclean Maxis Technology, for enhanced cleanability. In addition, Altro Mirica retains its attractive appearance between cleaning cycles to deliver safety without compromising appearance retention.

Including a high quality 0.8mm wear layer for a hard-wearing finish and enhanced chemical resistance, it provides a reduced risk of failure due to chemical attack and longer life expectancy.

Altro Mirica perfectly complements Altro Suprema II and both products have been used together in a variety of applications to create design interest and distinguish area functionality.

Contributes to reducing the environmental impact of your specification:

- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

Typical applications:

- high traffic areas
- corridors
- classrooms
- hospital streets
- shops
- supermarkets
- reception areas
- serveries

Please see product selector on pages 14-15 for full details.

Dimensions: 25.64 x 1.56m

Format: Roll

Thickness: 2mm



Unicorn MC2001  
WR236 A1M87

LRV 35



Hydra MC2003  
WR203 A1M203

LRV 30



Kraken MC2002  
WR230 A1M203

LRV 39



EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd, Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom

Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: **LRV** = Light Reflectance Value, **WR** = Weldrods, **A1M** = Mastic

For an unobtrusive appearance, colour matched weldrods and mastics are available.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



Altro Maxis™ 25

Slip resistance:	TRRL ≥ 36	DIN 51130	R10
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samples@altro.com

34

Safety  
Flooring



At 2.5mm thick, Altro Maxis 25 offers excellent durability and resistance to mechanical or physical damage, saving on long term replacement costs. The aluminium trioxide throughout the thickness of the material affords lifelong slip resistance, even when wet. It offers enhanced chemical resistance and a bacteriocide for MRSA resistance, thereby enhancing patient welfare by reducing the risk of infection.

Altro Maxis 25 offers you a range of colours to suit your design requirements, including darker options to mask soiling, therefore making it ideal for such applications as laboratories and art rooms.

This range contains Altro Easyclean Maxis Technology for superior cleanability and colour retention; in addition, less water and detergent are required when cleaning.

It is ideal for high traffic areas, where an attractive appearance and safety underfoot are critical.

Contributes to reducing the environmental impact of your specification:

- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

Typical applications:

- public circulation areas
- school corridors
- classrooms
- hospital streets
- shops
- supermarkets
- laboratories
- art/craft rooms

Please see product selector on pages 14-15 for full details.

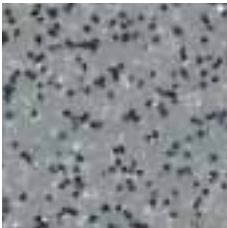
Dimensions: 20 x 2m	Format: Roll	Thickness: 2.5mm
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35

Safety  
Flooring



Galaxy MXI25219  
WR100 A1M100  
LRV 6



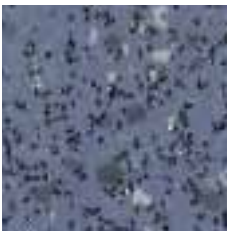
Summit MXD25206  
WR81 A1M81  
LRV 26



Epic MXI25212  
WR105 A1M1  
LRV 64



Sovereign MXD25214  
WR157 A1M42  
LRV 11



Vanquish MXI25211  
WR173 A1M71  
LRV 22



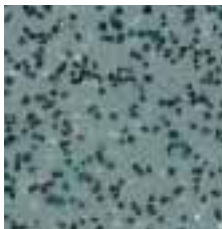
Meridian MXI25216  
WR63 A1M239  
LRV 22



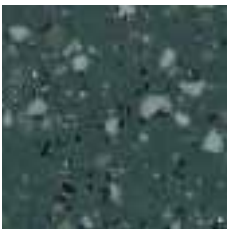
Merit MXD25207  
WR20 A1M20  
LRV 40



Fusion MXI25208  
WR83 A1M83  
LRV 14



Pinnacle MXD25204  
WR52 A1M52  
LRV 25



Valiant MXI25218  
WR243 A1M147  
LRV 14



Enterprise MXI25220  
WR12 A1M12  
LRV 51



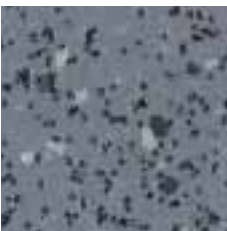
Endeavour MXI25210  
WR27 A1M27  
LRV 29



Calibre MXD25201  
WR72 A1M72  
LRV 10



Legend MXD25215  
WR231 A1M73  
LRV 10



Universe MXI25209  
WR84 A1M84  
LRV 22



EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd, Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom

Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: LRV = Light Reflectance Value, WR = Weldrods, A1M = Mastic

For an unobtrusive appearance, colour matched weldrods and mastics are available.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



Altro Designer™ 25

Slip resistance:	TRRL ≥ 36	DIN 51130	R10
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samples@altro.com



This 2.5mm thick hard-wearing safety flooring includes coloured quartz crystals in exciting base colours to enhance any interior scheme. Available in a variety of colours, it gives you design flexibility and the scope to colour co-ordinate.

Altro Designer 25 is highly flexible and easy to lay. It can be easily hot welded to produce an unobtrusive and impervious floor, minimising the ingress of dirt and helping maintain hygiene standards. The long-term durability and excellent slip resistance ideally lend it to applications in medium to heavy duty environments. Designed for low maintenance, it features Altro Easyclean™ Original Technology for a lasting attractive appearance and savings in time and cleaning costs, plus a bacteriostat for enhanced hygiene.

Contributes to reducing the environmental impact of your specification:

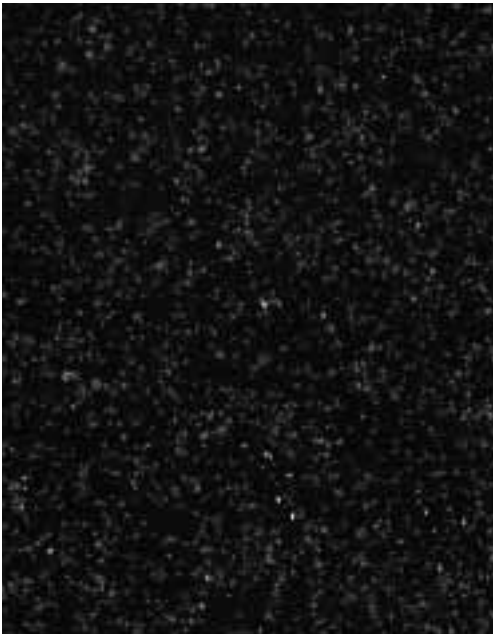
- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

Typical applications:

- general circulation areas
- school corridors
- classrooms
- hospital streets
- shops

Please see product selector on pages 14-15 for full details.

Dimensions: 20 x 2m	Format: Roll	Thickness: 2.5mm
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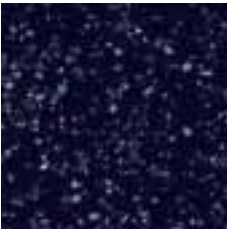
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WR100 A1M100  
LRV 6



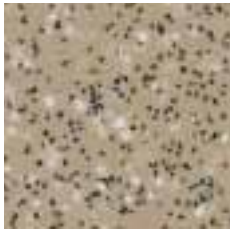
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WR72 A1M72  
LRV 11



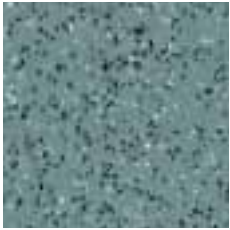
Teal D25906  
WR147 A1M147  
LRV 13



Twilight D25910  
WR39 A1M34  
LRV 8



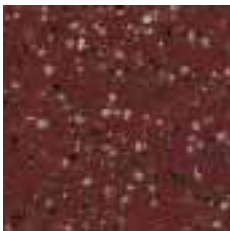
Biscuit D25904  
WR146 A1M20  
LRV 30



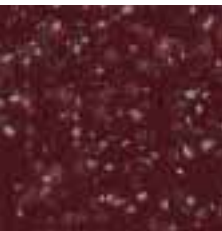
Skyline D25332  
WR52 A1M52  
LRV 25



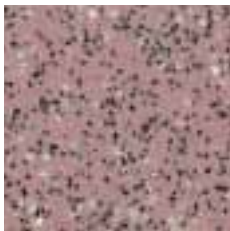
Fog D25153  
WR81 A1M81  
LRV 27



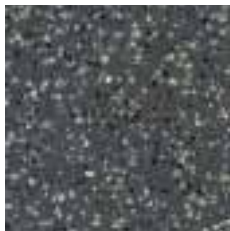
Rust D25907  
WR150 A1M238  
LRV 10



Victoria D25908  
WR148 A1M148  
LRV 9



Rosa D25905  
WR149 A1M149  
LRV 30



Storm D25903  
WR82 A1M82  
LRV 16



Bone D25215  
WR20 A1M20  
LRV 37

Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: **LRV** = Light Reflectance Value, **WR** = Weldrods, **A1M** = Mastic For an unobtrusive appearance, colour matched weldrods and mastics are available.  
EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd, Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom



# Altro Walkway™ 20

38

Safety  
Flooring

**NEW**  
colours and  
chipped options



Altro Walkway has been extended to include bright and subtle colours, as well as decorative chipped options. The addition of ten new chip products and two new brighter plain colours gives you a varied selection of 24 for enhanced design flexibility.

The scope of new Altro Walkway extends the potential applications of this range, enabling you to create inspiring environments in a variety of installations.

Altro Walkway is a hugely popular hard-wearing 2mm safety flooring, providing lifelong slip and abrasion resistance. Additional benefits include superior chemical and indentation resistance, which contribute to excellent product durability. Easy to cove and weld, it affords reduced installation costs.

Altro Walkway achieves 36 and above on the pendulum test throughout the lifetime of the product. It is fully backed with a 10 year warranty and boasts a life expectancy of over 15 years, affording you complete peace of mind.

### Static dissipative option

Minimise the risk of damage to, or failure of, static-sensitive equipment, such as computers, by opting for the “SD” Altro Walkway version. Suitable for areas such as laboratories, computer suites and electronic assembly, which require a floor covering with static dissipative properties.

Contributes to reducing the environmental impact of your specification:

- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

### Typical applications:

- busy public areas
- corridors
- kitchens (up to 100 covers)
- bars/serveries
- classrooms
- hospitals
- shops

Please see product selector on pages 14-15 for full details.

Dimensions: 20 x 2m

Format: Roll

Thickness: 2mm

39

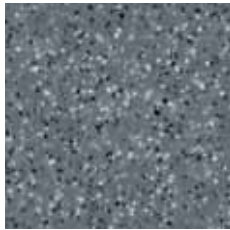
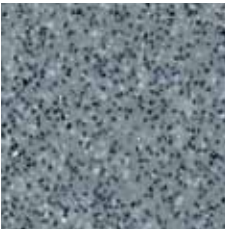
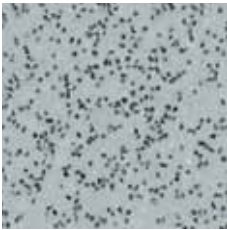

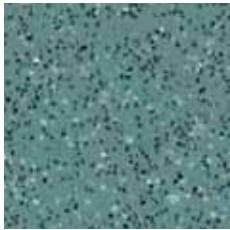
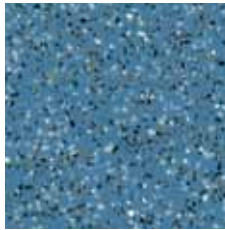
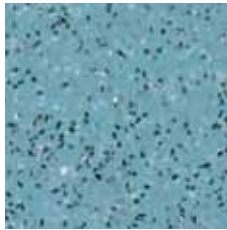
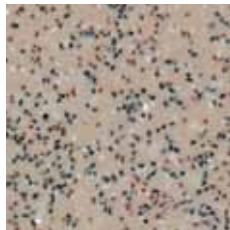
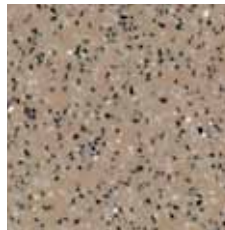

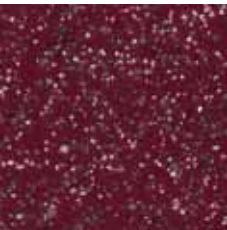
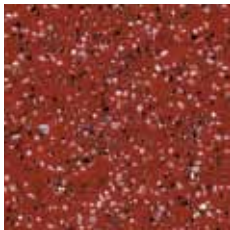

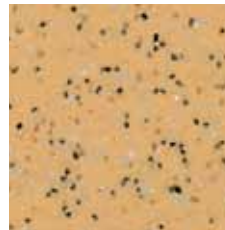
Safety  
Flooring





Altro Walkway™ 20 Continued

40  
Safety  
Flooring


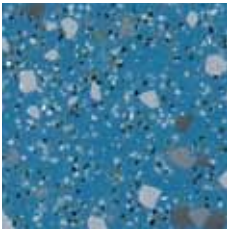
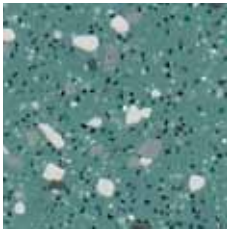
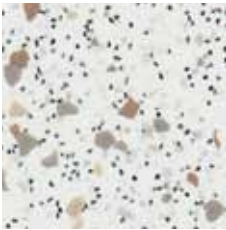


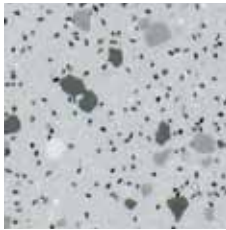
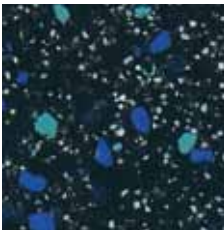

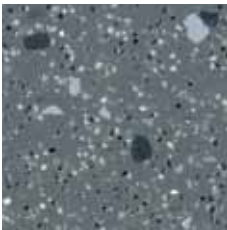
 <p><b>Dolphin VM2010</b> WR86 A1M86 LRV 21</p>	 <p><b>Fog VM20153*</b> WR81 A1M81 LRV 27</p>	 <p><b>Cloud VM2014</b> WR79 A1M191 LRV 41</p>	 <p><b>Black VM20892</b> WR100 A1M100 LRV 6</p>		
 <p><b>Skyline VM20332</b> WR52 A1M52 LRV 24</p>	 <p><b>Blue VM20412</b> WR71 A1M71 LRV 22</p>	 <p><b>Waterfall VM20912</b> WR155 A1M135 LRV 31</p>			
 <p><b>Bone VM20215</b> WR20 A1M20 LRV 37</p>	 <p><b>Biscuit VM20907</b> WR146 A1M20 LRV 30</p>	 <p><b>Tundra VM20910</b> WR153 A1M239 LRV 17</p>		 <p><b>Cherry VM20920</b> WR148 A1M148 LRV 10</p>	 <p><b>Tango VM2031</b> WR42 A1M42 LRV 14</p>
 <p><b>Midnight VM20421</b> WR72 A1M72 LRV 11</p>	 <p><b>Canary VM2030</b> WR247 A1M247 LRV 44</p>				

Please see product selector on pages 14-15 for full details.

Dimensions: 20 x 2m	Format: Roll	Thickness: 2mm
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Slip resistance:	TRRL ≥ 36	DIN 51130	R10
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 <p><b>Lupin VMI2059</b> WR286 A1M286 LRV 17</p>	 <p><b>River VMI2057</b> WR71 A1M71 LRV 22</p>	 <p><b>Tarragon VMI2052</b> WR52 A1M52 LRV 26</p>	 <p><b>Winter VMI2053</b> WR105 A1M1 LRV61</p>
	 <p><b>Savannah VMI2050</b> WR153 A1M239 LRV 19</p>	 <p><b>Sand VMI2051</b> WR20 A1M20 LRV 40</p>	 <p><b>Blizzard VMI2055</b> WR79 A1M191 LRV 44</p>
	 <p><b>Nightfall VMI2056</b> WR72 A1M72 LRV 10</p>	 <p><b>Coal VMI2058</b> WR100 A1M100 LRV 6</p>	 <p><b>Whale VMI2054</b> WR86 A1M86 LRV 20</p>

41  
Safety  
Flooring

Product information Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: LRV = Light Reflectance Value, WR = Weldrods, A1M = Mastic

For an unobtrusive appearance, colour matched weldrods and mastics are available.

\* Indicates static dissipative grade available. For code use standard product code followed by 'SD'. Due to the addition of static dissipative properties, Altro Walkway 20 SD does not have exactly the same appearance as that shown above.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL







Altro XpressLay is the first ever adhesive-free safety floor, designed to save you time, money and hassle.

This pioneering safety flooring has a unique underside emboss that forms tiny air channels allowing any moisture left in the sub-floor to escape. This technology means that you can apply Altro XpressLay™ to a new concrete floor at up to 97% humidity and get the job done more economically without any problems.

- **No messing** – no need for adhesive or a surface damp-proof membrane
- **No contamination** – is sustainable and can be recycled post-installation
- **No delays** – fit directly even at 97% relative humidity (no waiting until 75%), even on problem surfaces like existing tiles and flaky paint
- **No hassle** – keep underfloor heating on, rather than enduring timely shutdowns
- **No hold-ups** – no waiting for adhesive to ‘cure’, same-day welding and you can walk on the floor straight away



- **No tricky fits** – can be straight laid or self-coved as standard safety flooring without any problems
- **No longevity issues** – a highly durable, slip resistant flooring for highly-trafficked areas
- **No problems** – Altrosan™ bacteriostat for enhanced hygiene
- **No worries** – a BRE Generic A+ Environmental Rating in the majority of applications make it the sustainable option
- **No uncertainty** – enjoy peace of mind with free expert technical support from Altro and a 10-year warranty

## Perfect for problem areas



**Project:** Herne Bay High School  
**Location:** Canteen  
**Size:** 450m²  
**Issue:** Subfloor moisture and timings

When rain damage threatened to disrupt Herne Bay High School with lengthy closures for repairs, instead of a six week construction programme to remove the damaged flooring and re-screed the subfloor, Altro XpressLay was installed over a weekend, enabling a scheduled parents’ evening to go ahead on the Monday.

Now following the successful installation of Altro XpressLay in the canteen, a number of Altro floor and wall coverings are being used elsewhere at the school as part of a major refurbishment programme.

Cliff Reader of Provia Construction Ltd, the main contractors working on a three year refurbishment at the school, was impressed with the solution.

“Altro XpressLay is a very good product with lots of clear advantages. It’s easy to use and very efficient – what could have been a costly delay to the construction programme was averted due to the time savings offered by this product. It was the perfect solution at Herne Bay and I’d certainly consider using it again.”



**Project:** United Nations Development Programme - The Environment General Authority, Libya  
**Location:** Laboratories  
**Size:** 900m²  
**Issue:** Damp floor

If only all jobs went as smoothly as this! The fitters were dubious about installing Altro XpressLay at first, but were delighted how straightforward this project was. I look forward to installing Altro XpressLay again, be it in the UK or abroad.

David Cheshire, Flooring Logistics.

I was very impressed with the way David and his team carried out this work, and overwhelmed with the final outcome. It’s one thing to approve a product on paper, but to see it in situ to such perfection and with the latest technology incorporated is just amazing.

Sarah Edongali, EGA Project Co-ordinator, UNDP Libya.



Slip resistance:	TRRL ≥ 36	DIN 51130	R10
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samples@altro.com

Revolutionary,  
adhesive-free safety  
flooring saves you time,  
money and hassle!



The world's first ever, adhesive-free safety floor has a unique underside emboss that forms tiny air channels allowing any moisture left in the subfloor to escape. This technology means that you can apply Altro XpressLay to a new concrete floor at up to 97% relative humidity, completing the installation more economically and speedily. It may also be installed over existing sound and secure flooring surfaces such as vinyl tiles.

Altro XpressLay is supplied with free Altro LooseLay double sided tape, which is specifically formulated to work with the underside of the flooring, ensuring optimum installation results and conformity to our 10 year warranty.

Altro XpressLay can be installed in applications where adhered safety flooring is inappropriate, such as historical and listed buildings, thereby extending the scope of safety flooring itself. It is also ideal for temporary installations, such as exhibitions or portacabins, as it can be easily removed post-installation.

Altro XpressLay is the truly sustainable option, as it is 100% recyclable post-installation.

Contributes to reducing the environmental impact of your specification:

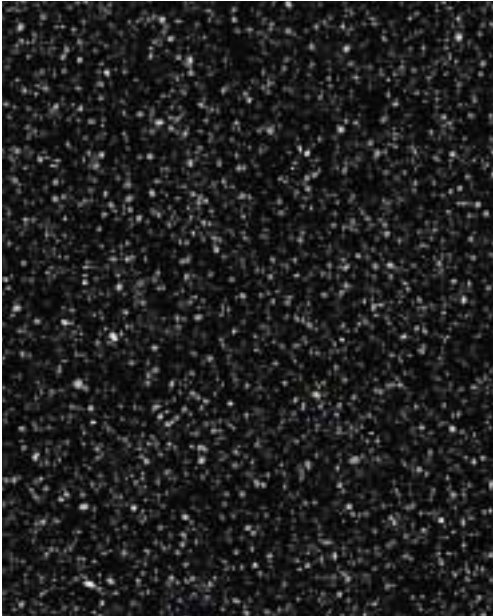
- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

Typical applications:

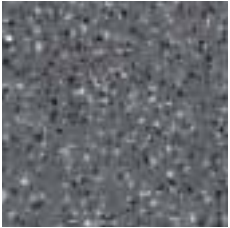
- general circulation areas
- school corridors
- classrooms
- hospital streets
- shops
- historical/listed buildings
- temporary buildings / portacabins

Please see product selector on pages 14-15 for full details.

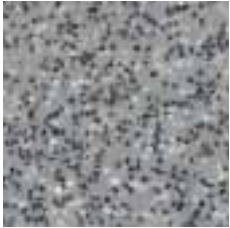
Dimensions: 20 x 2m	Format: Roll	Thickness: 2.2mm
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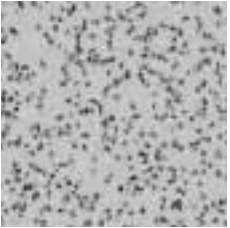
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WR100 A1M100  
LRV 6



Dolphin XL2210  
WR86 A1M86  
LRV 21



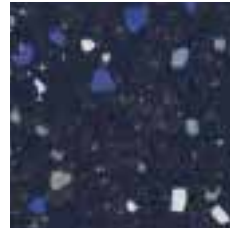
Fog XL22153  
WR81 A1M81  
LRV 27



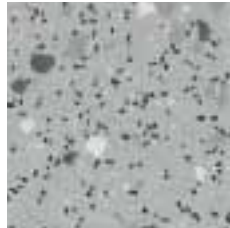
Cloud XL2214  
WR79 A1M191  
LRV 41



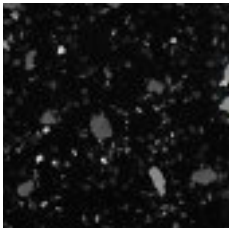
Granite XLI22006  
WR83 A1M83  
LRV 14



BlueBerry XLI22002  
WR231 A1M73  
LRV 11



Rhino XLI22009  
WR04 A1M85  
LRV 35



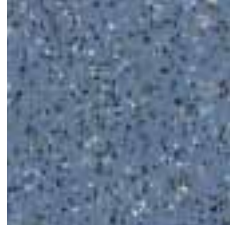
Space XLI22003  
WR100 A1M100  
LRV 7



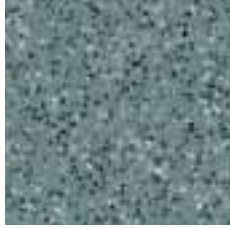
Cherry XL22920  
WR148 A1M148  
LRV 10



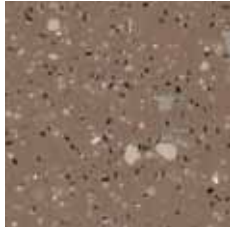
Bone XL22215  
WR20 A1M20  
LRV 37



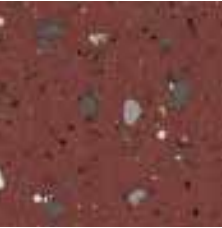
Blue XL22412  
WR71 A1M71  
LRV 22



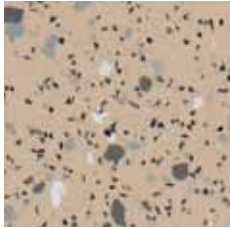
Skyline XL22332  
WR52 A1M52  
LRV 24



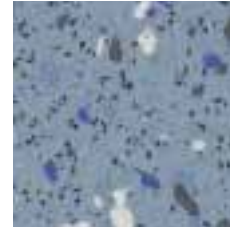
Coffee XLI22007  
WR63 A1M239  
LRV 22



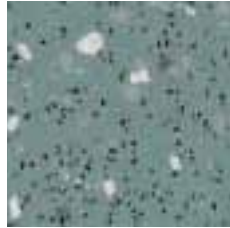
Dragon XLI22001  
WR251 A1M238  
LRV 11



Sahara XLI22004  
WR20 A1M20  
LRV 38



Lake XLI22005  
WR245 A1M203  
LRV 30



Herb XLI22008  
WR52 A1M52  
LRV 24



EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd, Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom

Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: LRV = Light Reflectance Value, WR = Weldrods, A1M = Mastic

For an unobtrusive appearance, colour matched weldrods and mastics are available.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



Altro Impressionist™ II

Slip resistance:	TRRL ≥ 36	DIN 51130	R10
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samples@altro.com

46

Safety  
Flooring



This decorative, yet practical 2mm thick safety flooring is ideal for medium to high traffic areas. It features coloured chips set in a complementary background, enabling adjacent floor and wall finishes to be co-ordinated.

The coloured chips are fused to the main body of the flooring, resulting in lifelong slip resistance, improved appearance retention and strength. It is designed to provide flexibility for detailing and coving, hot weld strength, excellent chemical resistance and durability.

It contains Altro Easyclean Original Technology for ease of cleaning and maintenance and a bacteriostat to inhibit the growth of micro-organisms such as MRSA.

Contributes to reducing the environmental impact of your specification:

- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

Typical applications:

- public circulation areas
- school corridors
- classrooms
- hospital streets
- shops
- supermarkets

Please see product selector on pages 14-15 for full details.

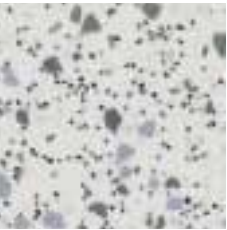
Dimensions: 20 x 2m	Format: Roll	Thickness: 2mm
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47

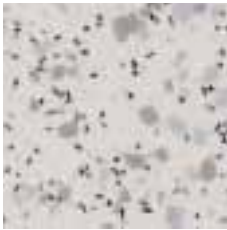
Safety  
Flooring



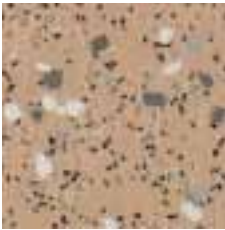
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WR100 A1M100  
LRV 6



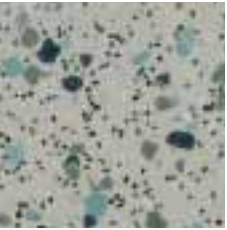
**Oasis IP2011**  
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LRV 49



**Arctic IP2012**  
WR11 A1M11  
LRV 49



**Adobe IP2008**  
WR24 A1M27  
LRV 32



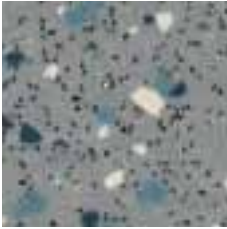
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WR137 A1M137  
LRV 34



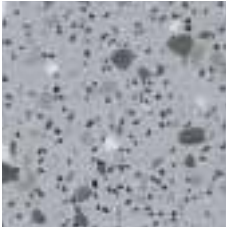
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LRV 61



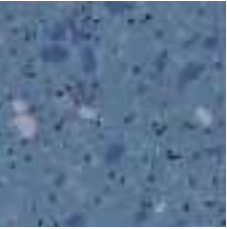
**Canvas IP2009**  
WR12 A1M12  
LRV 48



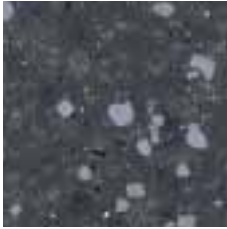
**Ore IP2004**  
WR81 A1M81  
LRV 26



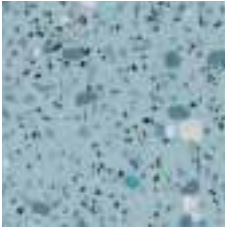
**Lunar IP2005**  
WR85 A1M85  
LRV 36



**Tranquil IP2017**  
WR71 A1M71  
LRV 21



**Mineral IP2003**  
WR83 A1M83  
LRV 14



**Aqua IP2018**  
WR135 A1M135  
LRV 38



EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd, Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom

Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: **LRV** = Light Reflectance Value, **WR** = Weldrods, **A1M** = Mastic

For an unobtrusive appearance, colour matched weldrods and mastics are available.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



Altro Classic™ 25

Slip resistance:	TRRL ≥ 36	DIN 51130	R10
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samples@altro.com



Altro Classic 25 is the original hard-wearing, slip-resistant safety flooring, providing lasting slip resistance, enhanced durability and good abrasion resistance, making it ideal for heavy traffic areas. With good dimensional stability, it offers long term appearance retention and replacement costs, making it a perennially popular choice.

Altro Classic 25 contains a bacteriostat to inhibit the growth of bacteria, contributing to hygiene standards and reducing the risk of cross-infection and Altro Easyclean Original Technology for ease of cleaning and maintenance.

Contributes to reducing the environmental impact of your specification:

- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

Typical applications:

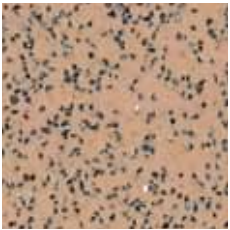
- public circulation areas
- school corridors
- classrooms
- hospitals
- shops
- supermarkets

Please see product selector on pages 14-15 for full details.

Dimensions: 20 x 2m	Format: Roll	Thickness: 2.5mm
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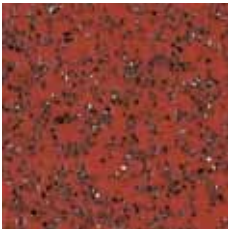
Anvil X2594  
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LRV 11



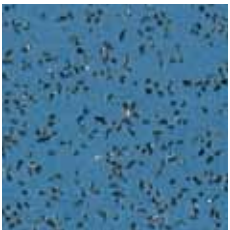
Mushroom X2542  
WR24 A1M27  
LRV 32



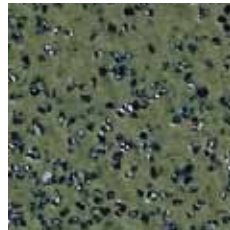
Walnut X2586  
WR62 A1M62  
LRV 10



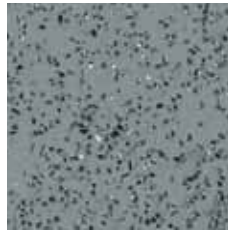
Quarry Red X2560  
WR42 A1M42  
LRV 13



Blue X2541  
WR71 A1M71  
LRV 20



Moss X2533  
WR51 A1M51  
LRV 17



Pewter Grey X2539  
WR81 A1M81  
LRV 26

Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: **LRV** = Light Reflectance Value, **WR** = Weldrods, **A1M** = Mastic For an unobtrusive appearance, colour matched weldrods and mastics are available.  
EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd. Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom



Altro Marine™ 20



Slip resistance: DIN 51097 C DIN 51130 R10



The carefully textured 2mm thick dimpled surface is specifically designed for safety with wet, bare feet or soft soled footwear. Comfortable underfoot, it affords superb slip resistance when wet, making it ideal for use in shower areas and swimming surrounds as well as other wet areas requiring slip resistance within the healthcare, leisure and education sectors.

It contains a bacteriostat to inhibit the growth of micro-organisms, such as MRSA, reducing the risk of cross-contamination and potential subsequent litigation claims.

Easy to clean and maintain, its hard-wearing construction provides enhanced chemical and indentation resistance, resulting in a longer life expectancy.

It co-ordinates well with Altro Walkway 20 or Altro Impressionist II in adjacent areas and Altro Whiterock™ wall cladding.

Contributes to reducing the environmental impact of your specification:

- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

- Typical applications:
- showers/drying areas
  - swimming pool/whirlpool surrounds
  - spas/wet areas

Please see product selector on pages 14-15 for full details.

Dimensions: 20 x 2m

Format: Roll

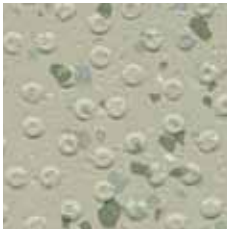
Thickness: 2mm



Shark IPT20812  
WR201 A1M84  
LRV 24



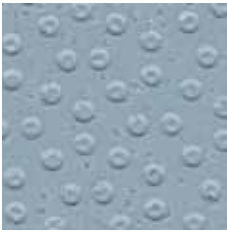
Gull T20813  
WR79 A1M191  
LRV 46



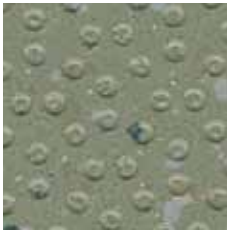
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Cascade IPT20809  
WR105 A1M1  
LRV 71



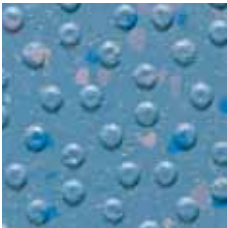
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WR203 A1M203  
LRV 34



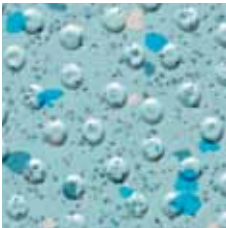
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LRV 19



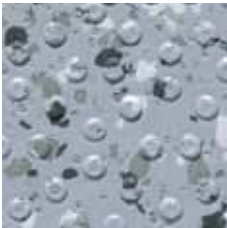
Reef T20801  
WR20 A1M20  
LRV 41



Tide IPT20808  
WR71 A1M71  
LRV 21



Rainfall IPT20810  
WR135 A1M135  
LRV 43



Steam IPT20807  
WR85 A1M85  
LRV 37

Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: LRV = Light Reflectance Value, WR = Weldrods, A1M = Mastic For an unobtrusive appearance, colour matched weldrods and mastics are available.  
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EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd, Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom



# Altro Stronghold™ 30

52

Safety  
Flooring



A 3mm thick flooring designed for safety in wet and greasy conditions where frequent spillage is likely, this product is ideally suited for commercial kitchen usage. Boasting Altro's highest rating for slip resistance, Altro Stronghold 30 minimises slip risk in areas of heavy traffic. It offers long term durability and ease of cleaning.

Altro Stronghold contains a bacteriostat to inhibit the growth of bacteria, contributing to hygiene standards and reducing the risk of cross-infection.

Altro Stronghold is frequently specified with Altro Whiterock™ wall cladding to create safe and hygienic environments in commercial and industrial kitchens, as well as healthcare.

Contributes to reducing the environmental impact of your specification:

- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

**Typical applications:**

- commercial kitchens (400+ covers)
- hospital kitchens
- food processing
- hospitals
- laboratories
- bars
- canteens/serveries
- supermarkets
- shops/showrooms

Please see product selector on pages 14-15 for full details.

**Dimensions:** 15 x 2m

**Format:** Roll

**Thickness:** 3mm

**Slip resistance:**

**TRRL ≥ 50**

**DIN 51130**

**R12**



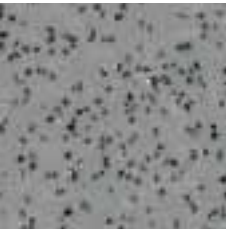
53

Safety  
Flooring



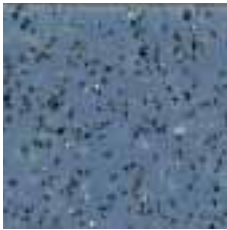
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WR100 A1M100

LRV 7



**Monsoon K30153**  
WR81 A1M81

LRV 24



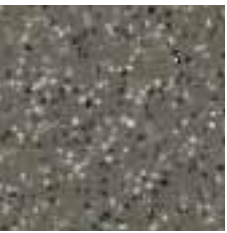
**Surf K30412**  
WR71 A1M71

LRV 20



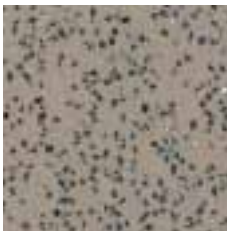
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WR39 A1M34

LRV 7



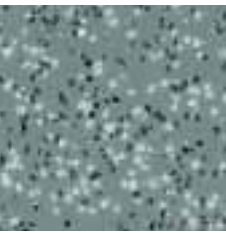
**Tundra K30500**  
WR153 A1M239

LRV 17



**Camel K3017**  
WR64 A1M239

LRV 26



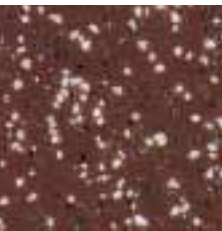
**Skyline K30332**  
WR52 A1M52

LRV 24



**Velvet K30365**  
WR256 A1M148

LRV 8



**Russet K30262**  
WR41 A1M41

LRV 14



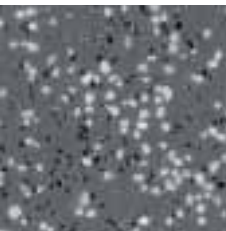
**Maple K30522**  
WR24 A1M27

LRV 31



**Oyster K30215**  
WR20 A1M20

LRV 36



**Dolphin K3010**  
WR86 A1M86

LRV 21



EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd, Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom

Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: **LRV** = Light Reflectance Value, **WR** = Weldrods, **A1M** = Mastic

For an unobtrusive appearance, colour matched weldrods and mastics are available.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



Altro Atlas™ 40

Slip resistance:	TRRL ≥ 36	DIN 51130	R10
------------------	-----------	-----------	-----



At 4mm thick, Altro Atlas 40 is the toughest Altro safety flooring. Hard-wearing, with improved indentation resistance, it offers you enhanced resistance to mechanical damage, long-term durability and slip resistance. Its construction affords enhanced chemical resistance and stability, ease of cleaning and maintenance.

It is suitable for a wide range of heavy duty locations (except fork lift traffic areas, where Altro resin systems are ideal).

- Altro Atlas incorporates bacteriostat for enhanced hygiene

Contributes to reducing the environmental impact of your specification:

- A+ BRE Generic Green Guide Rating for Safety Flooring, full details available at [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk)

Typical applications:

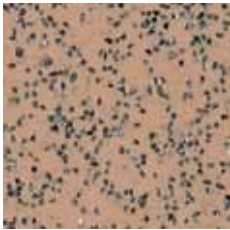
- public circulation areas
- light engineering
- chemical processing
- food production
- heavy duty trolley traffic
- airports
- railway stations

Please see product selector on pages 14-15 for full details.

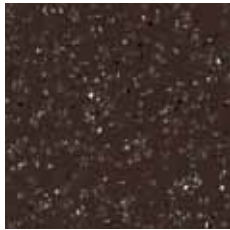
Dimensions: 12.5 x 2m	Format: Roll	Thickness: 4mm
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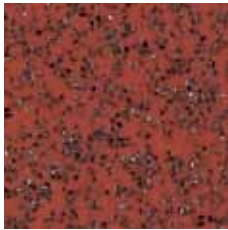
Anvil X4094  
WR101 A1M72  
LRV 11



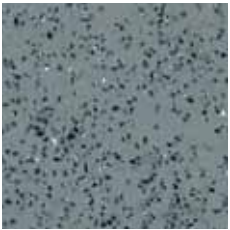
Mushroom X4042  
WR24 A1M27  
LRV 32



Walnut X4086  
WR62 A1M62  
LRV 10



Quarry Red X4060  
WR42 A1M42  
LRV 13



Pewter Grey X4939  
WR81 A1M81  
LRV 26

Product information Tel: +44 1462 707 600 E-mail: [enquiries@altro.com](mailto:enquiries@altro.com)

Codes: **LRV** = Light Reflectance Value, **WR** = Weldrods, **A1M** = Mastic For an unobtrusive appearance, colour matched weldrods and mastics are available.  
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EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd. Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom



Slip resistance:	TRRL ≥ 36	DIN 51130	R11
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samples@altro.com



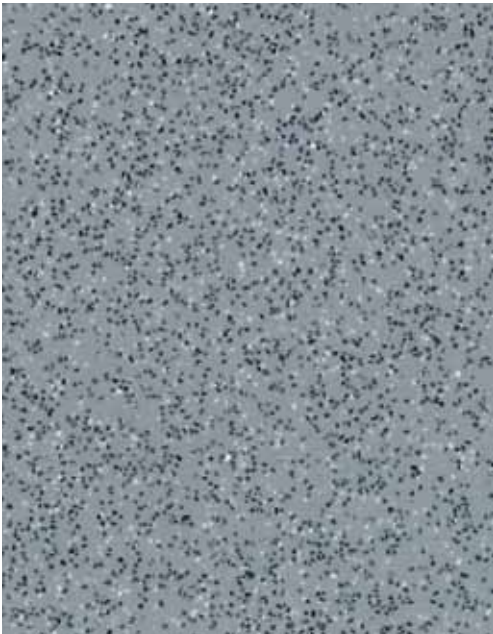
Our extensive ranges of safety flooring offer an industry leading combination of performance and low life cycle costs. This plasticised polyacrylate flooring product fulfils the need for resilience and safety where, for specific reasons, vinyl flooring is not appropriate.

Typical applications:

- canteens
- pubs
- hospitals
- schools
- retail

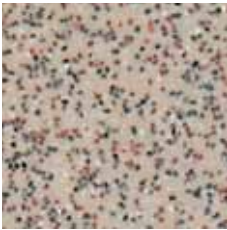
Please see product selector on pages 14-15 for full details.

Dimensions: 20 x 2m	Format: Roll	Thickness: 2mm
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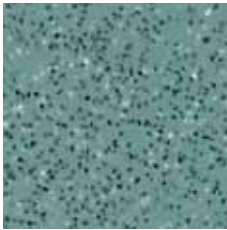
**Fog CD20153**  
WR81 A1M81

LRV 27



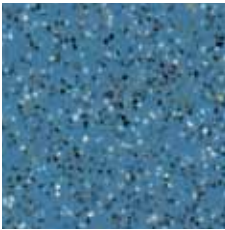
**Bone CD20215**  
WR20 A1M20

LRV 37



**Skyline CD20332**  
WR52 A1M52

LRV 24



**Blue CD20412**  
WR71 A1M71

LRV 22



**Midnight CD20421**  
WR72 A1M72

LRV 11



**Black CD20892**  
WR100 A1M100

LRV 6



EN14041  
0120  
GB06/72664

Manufactured by:  
Altro Ltd. Works Road  
Letchworth Garden City  
SG6 1NW  
United Kingdom

Product information Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: **LRV** = Light Reflectance Value, **WR** = Weldrods, **A1M** = Mastic

For an unobtrusive appearance, colour matched weldrods and mastics are available.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL