



ColoRex[®]concept

HOMOGENEOUS TILE
PROJECT VINYL





Commercial and public environments

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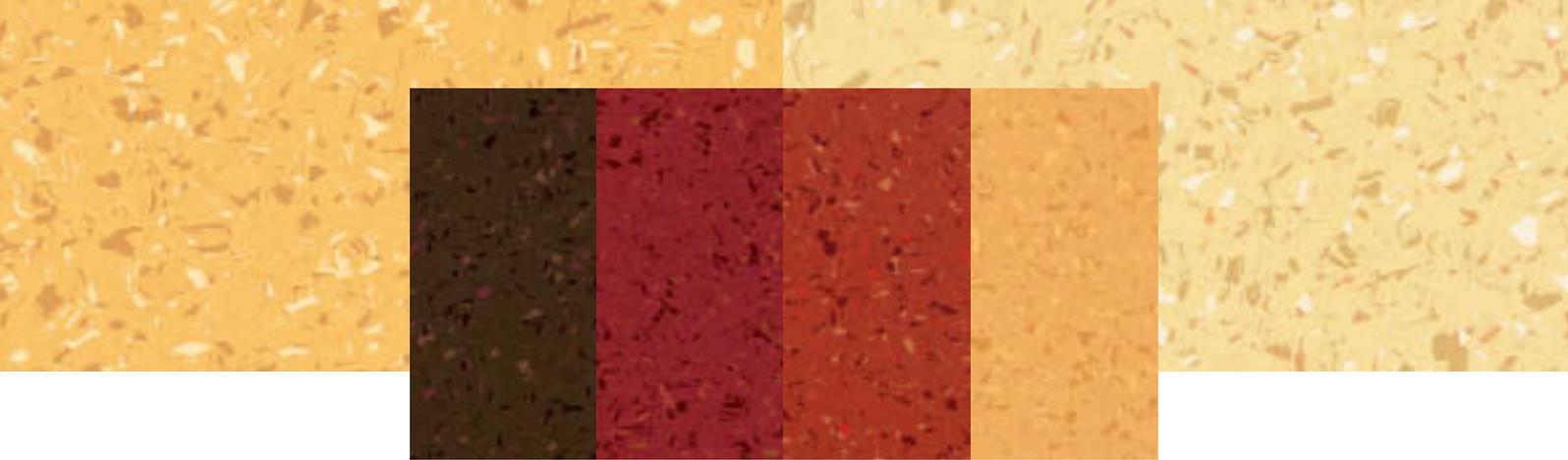
In office environments, castor chairs are putting floor coverings under severe mechanical stress with their dynamic and static loads. But resistance to indentation is not the only requirement here, the floor covering should also be viable for installation on raised floor panels, a common flooring system for offices today.

In schools, special attention is not only given to wear resistance and durability, but also to the colour and design of the floor covering, which should create a pleasant setting for the students. The same concept applies also for fashion shops and stores, where customers should feel particularly comfortable.

ColoRex®concept will bring the solution. Thanks to the high pressure manufacturing process and the quality of the selected raw materials, ColoRex®concept is a floor covering meeting with nearly every need. Due to its high density and to its homogeneous structure, ColoRex®concept does not only perform outstanding well under high traffic conditions, its smooth and pore free surface is also allowing for easy and effective cleaning procedures. Furthermore, ColoRex®concept is difficult to ignite and has shown excellent slip resistance properties. Should any damage occur to the tiles in spite of all its positive properties and features, the low plasticizer content will make it possible to repair and restore the floor covering by simple, yet effective restorative maintenance procedures.

Appearance retention and durability

The surface appearance and quality of ColoRex®concept is more than skin deep. ColoRex®concept tiles are sliced from homogeneous blocks of material pressed at very high pressure, meaning that the surface quality will not be altered by intensive use and cleaning cycles and that it will maintain its original appearance even after a restorative maintenance with abrasive methods.



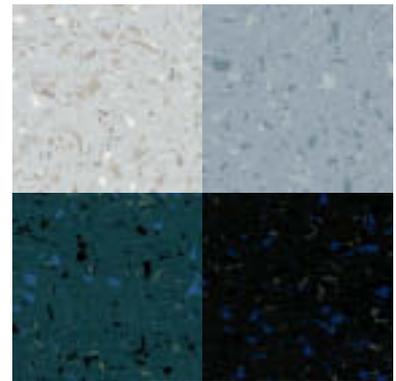
A



B



C



D

Colours made more specific...

3

The collection consists in the main of 4 colour groups:

- Powerful, predominantly strong colours.
- Light to medium colours found in nature.
- Pastel shades.
- Achromatic colours.

A / All colours of the first group tend to have warm tones. Hues of yellow and red dominate. Dark brown fills a special role, it embodies all that is floor-like, earthy, load-bearing – like no other colour.

Shades of brown are currently experiencing a renaissance: elite, stylish, avant-garde, elevated, reduced...

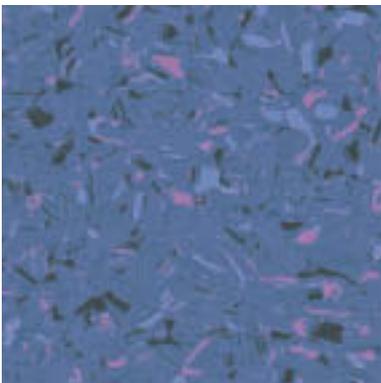
B / The second and largest colour group of the collection (of which just a small selection is shown here) is marked by colour nuances reminiscent of stones and sand. So, for example, some of the colours may remind you of travertine; others of burnt clay, ochre, green slate...

The colours of this group are without exception sympathetic and durable floor colours as they act against (visible) dirt.

C / Hygiene and freshness are of immediate importance for the colours in the third group. They are ideal for doctors' practices, clinics, laboratories, treatment rooms etc.

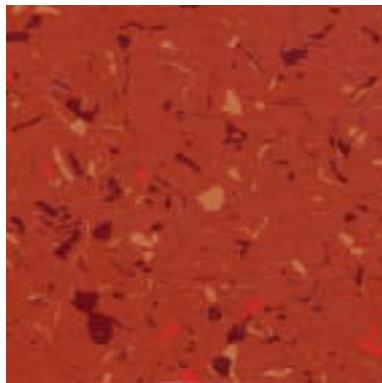
D / The last colour group is objective, sober, but with hidden charm. Black, anthracite, grey – is all you see at first glance. However, depending on the angle of the light and its mood the colours begin to take on life. Sparkling blue particles start to appear out of the dark of the black - once the light changes they disappear again into the darkness.

ColoRex[®]concept



twist

20 02 82



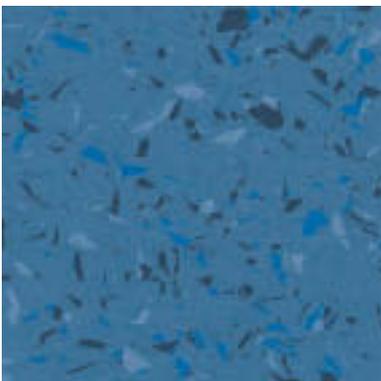
ethnic

20 02 85



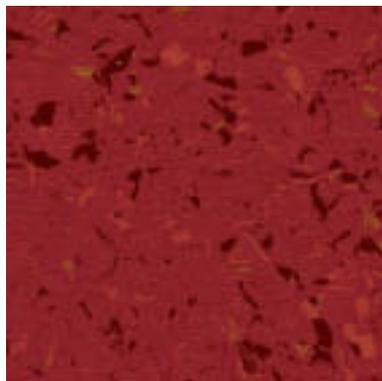
break

20 02 88



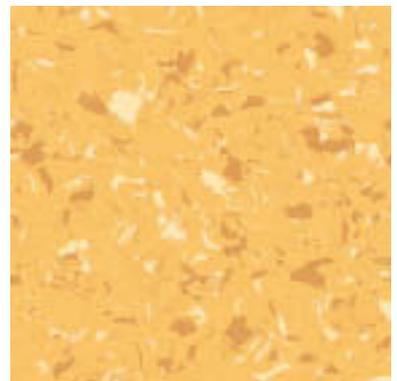
blues

20 02 81



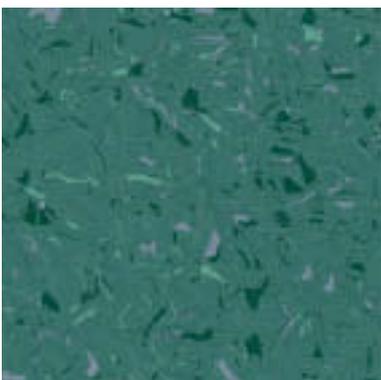
flamenco

20 02 84



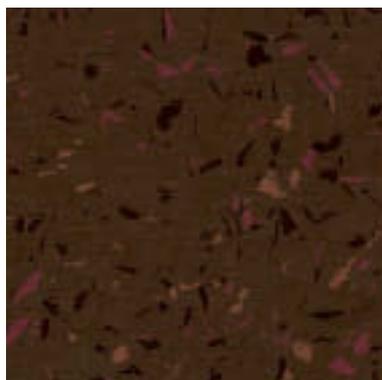
reggae

20 02 87



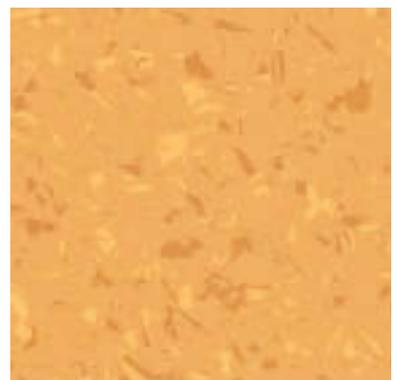
jazz

20 02 80



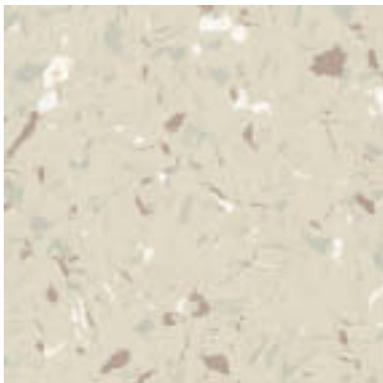
afro

20 02 83



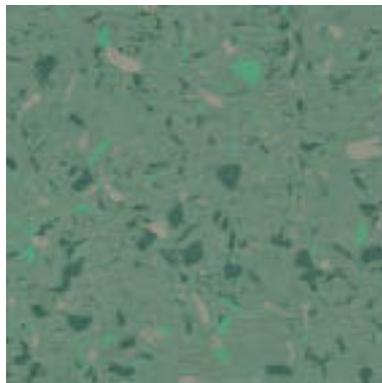
latino

20 02 86



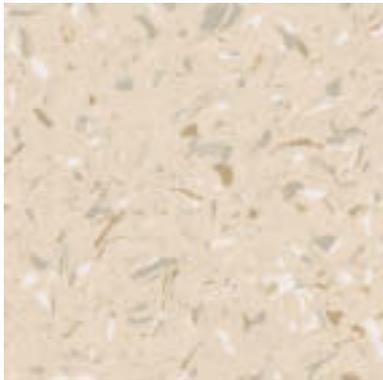
lambada

20 02 52



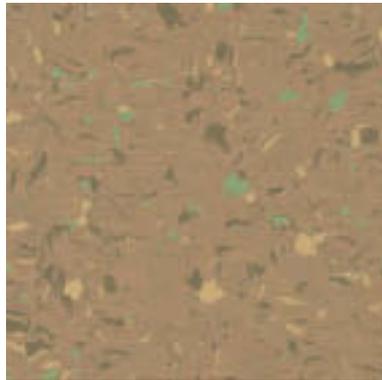
tango

20 02 55



salsa

20 02 51



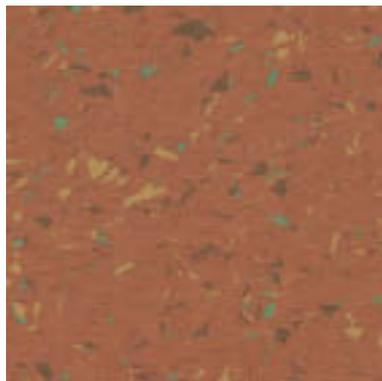
samba

20 02 54



mambo

20 02 50



rumba

20 02 53

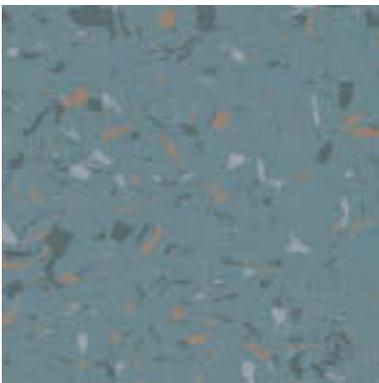
Colour codes

Welding rods

20 02 82	15 09 82	
20 02 81	15 09 81	
20 02 80	15 09 80	
20 02 85	15 09 85	
20 02 84	15 09 84	
20 02 83	15 09 83	
20 02 88	15 09 88	
20 02 87	15 09 87	
20 02 86	15 09 86	
20 02 52	15 09 52	
20 02 51	15 09 51	
20 02 50	15 09 50	
20 02 55	15 09 55	
20 02 54	15 09 54	
20 02 53	15 09 53	

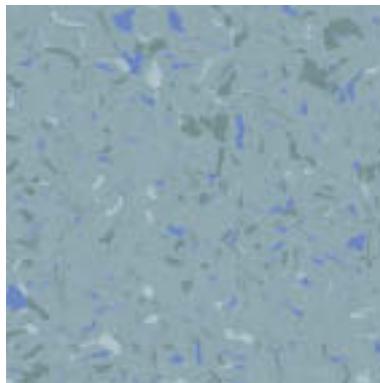
ColoRex[®]concept

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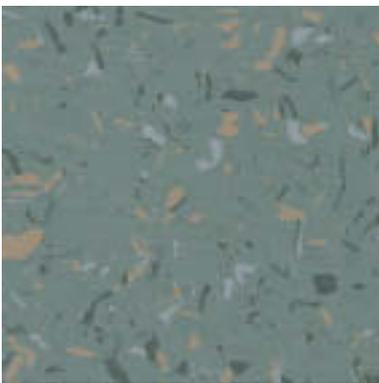
walzer

20 02 58



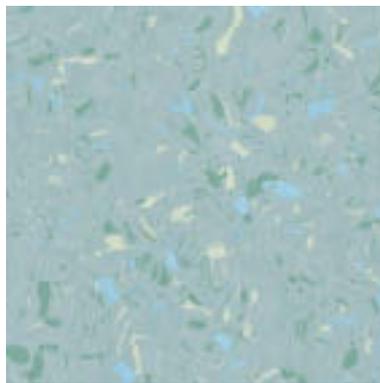
fusion

20 02 61



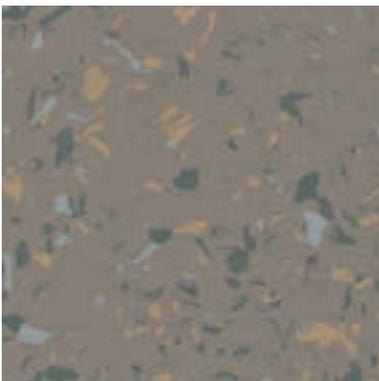
country

20 02 57



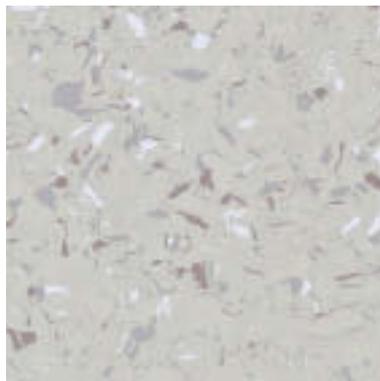
disco

20 02 60



rondo

20 02 56



dance

20 02 59

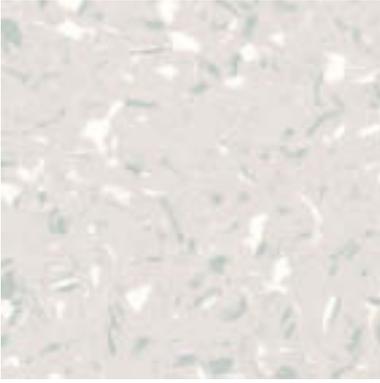
Colour codes

20 02 58
20 02 57
20 02 56
20 02 61
20 02 60
20 02 59
20 02 89
20 02 72
20 02 71
20 02 70
20 02 93
20 02 92
20 02 91
20 02 90

Welding rods

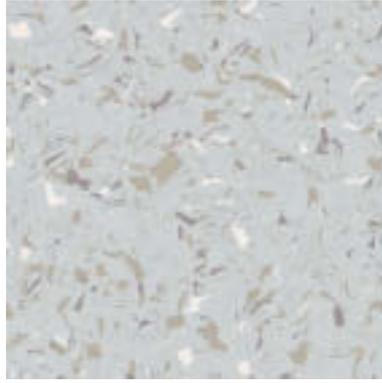
15 09 58
15 09 57
15 09 56
15 09 61
15 09 60
15 09 59
15 09 89
15 09 72
15 09 71
15 09 70
15 09 05
15 09 42
15 09 91
15 09 09





pop

20 02 89



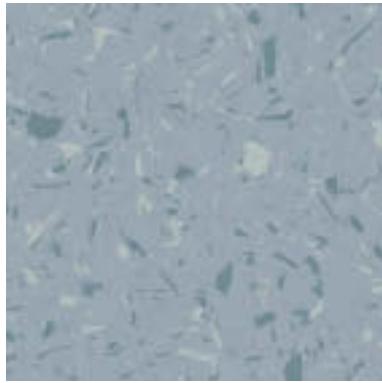
techno

20 02 93



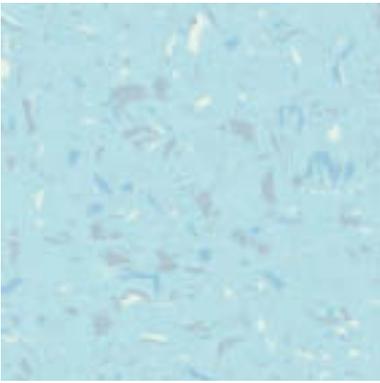
celtic

20 02 72



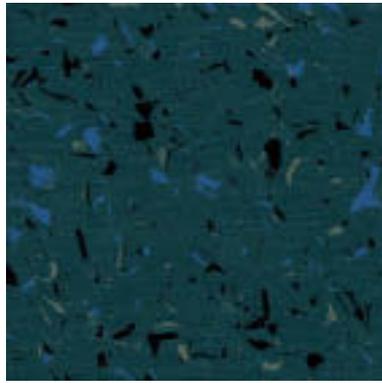
metal

20 02 92



new age

20 02 71



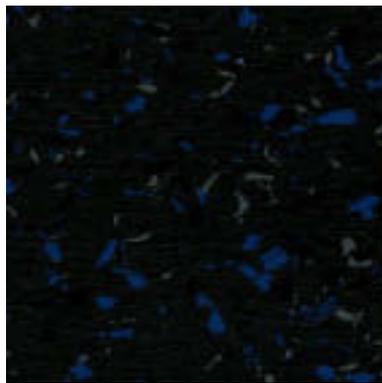
rock

20 02 91



mystic

20 02 70



funk

20 02 90



Installation and seam welding

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Subfloor requirements

ColoRex®concept must be installed on a smooth, flat, level, clean and permanently dry subfloor. The moisture content of concrete subfloors should not exceed 2,5% CM. Apply an adequate moisture barrier if uprising humidity is existent or to be expected. Levelling with a cement based self-levelling compound is recommended.

Acclimatisation

Prior to installation, the ColoRex®concept tiles must be acclimatised for at least 24 hours at a minimum temperature of 18°C. The tiles must be completely unpacked for acclimatisation and displayed on the floor in small and neat stacks of not more than 10 tiles.

Laying of the tiles

The installation of ColoRex®concept should not begin until the work of all other trades has been completed, especially overhead trades. Areas should be cleaned, fully enclosed and maintained at a minimum temperature of 18°C for 72 hours before, during and after installation is completed. ColoRex®concept tiles must be installed in a wet adhesive bed, the use of an acrylic dispersion adhesive from Forbo is recommended.

Seam welding

Heat welding of the ColoRex®concept tiles is strongly recommended for those environments where wet cleaning methods will be used. Welding rods in matching colours are available in 100 lm coils. Welding should not be carried out earlier than 24 hours after the installation is completed, observing a minimum room temperature of 16°C.

Groove the tiles along the junction lines with an appropriate grooving machine or by hand for difficult to reach areas. Grooving depth must be at least $\frac{3}{4}$ of the tile thickness. Use original ColoRex®concept welding rods (Ø 4mm) observing a welding temperature of 400°- 450°C. Best results are obtained by using automatic welding machines.

Maintenance and repair

Maintenance

Routine maintenance of ColoRex®concept should consist in sweeping the floor with impregnated one-way tissues or spray buffing with a red pad at low speed, using a specific, neutral and wax-free cleaning solution. Spray buffing is also the ideal solution for raised access floors.

If the wet method is preferred for routine maintenance, damp mop the floor with a neutral detergent only and rinse well. For large areas with heavy traffic, the use of a scrubber drier machine with a specific detergent is indicated.

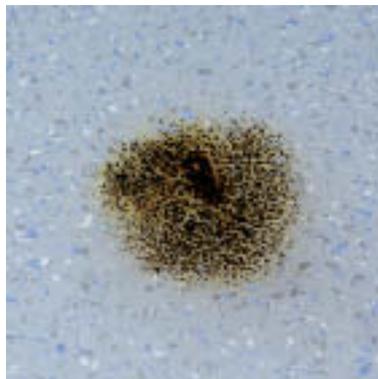
Please refer to the technical manuals of Forbo Flooring for complete care and maintenance instructions as well as for extraordinary or restorative maintenance procedures.

Repair

Deep and long scratches, holes, burns and other more or less severe surface damages on ColoRex®concept can be effectively repaired by simple operations, without leaving any trace and without impairing the original floor performance. 100% reparability is a unique feature, made possible by the perfect homogeneity of the tiles and the low content of plasticizer of ColoRex®concept.

Abrasive cleaning

Surface damages like burns, dulling or discoloration caused by chemicals, stubborn stains and alike can be perfectly removed by abrasion using a normal eccentric grinding machine. Proceed in several steps, starting with a coarse sand paper disk and finishing with a fine grade one. Complete the operation by polishing the repaired spot with a red pad, thereby restoring the original surface quality and appearance of ColoRex®concept.



Homogeneous welding

Deep scratches and other physical damages of the ColoRex®concept tiles can be repaired by homogeneous welding. Cut a stripe from a tile of the same colour reference, slide the stripe into the flat welding nozzle of a hot air gun and firmly weld it straight into the damaged spot, setting a temperature of approx. 400-450°C. Remove the excess material with a sharp crescent shape knife and complete the operation by grinding and polishing the repaired spot.





Technical specifications

ColoRex® Concept

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Classification	EN 685	34/43
CE-marking	EN 14041	compliant
Collection size		29
Total thickness	EN 428	2.0 mm
Tile size(s)	EN 427	610 x 610 mm
Weight	EN 430	3.0 kg/m ²
Slip resistance	EN 13893	μ : 0.6
	DIN 51130	R9
Fire rating	EN 13501-1	B _{fl} , s1
	ASTM E648/NFPA 253	Class 1 (1.13 W/cm ²)
	ASTM E662/NFPA 258	< 450
Wear resistance (group)	EN 660-1	group M
Castor chair resistance	EN 425	No effect
Residual indentation	EN 433	0.035 mm
	ASTM F970-00	0.005 inch at 1500 Lbs. (residual compression)
Colour fastness	EN 20 105-B02 method 3	7- 8
Thermal conductivity	ISO 5085-1	0.007 m ² K/W (suitable for floor heating systems)
Chemical resistance	EN 423	Excellent (details available upon request)
Dimension stability	EN 434	0.05% lengthwise/crosswise
Bacteriostatic and fungicidal behaviour	SNV 195 920	Yes
	SNV 195 921	

Other ColoRex® solutions

ColoRex®plus

ColoRex®plus is a high performance floor covering system in tiles for all those areas of application where other flooring products would simply be overstressed, making expensive subfloor preparation and production downtimes necessary.

ColoRex®plus is a homogeneous floor covering system that can be loose laid on nearly every kind of subfloor, regardless of their condition. ColoRex®plus comes in three different versions, meeting a large variety of performance requirements: the standard ST tiles with a studded and slip resistant surface, the AS version featuring a genuine ColoRex® surface in various colours and the EC version with specific conductive properties. All three versions can be seamlessly combined together. As an addition, tiles can be heat welded for hygiene critical applications. ColoRex®plus can be loose laid and it is immediately accessible. Tiles are dovetailed, with the dovetail connection system remaining invisible under the surface. Due to the unique structure of this product, electrical conductivity is guaranteed for the first time also on a loose laid flooring system. ColoRex®plus is a patented solution from Forbo.



ColoRex® SD/EC

ColoRex® SD/EC is a range of homogeneous, pressed vinyl tiles with conductive properties and particular surface characteristics, specifically designed for applications in the electronic industry, pharmaceutical and biotech production facilities and healthcare environments.

ESD protection

The generation and accumulation of static electricity by moving personnel and mobile equipment can represent a serious source of problems associated to ESD in various industrial fields, such as:

- Production and assembly of electronic devices.
- Cleanrooms for the production of semiconductors.
- Operating theatres, intensive care units and imaging facilities in hospitals.

Reducing the generation of static electricity charges is the main objective of any ESD protection program and a conductive floor covering like ColoRex® SD/EC plays a primary role.

ColoRex®welltech

ColoRex®welltech is the first homogeneous, conductive floor covering product on polyester basis. It does not contain any plasticizer at all and it is free of antistatic additives, meeting the highest standards and expectations of modern environmental science.

Absolutely new base material

- Improved safety in case of fire, hardly ignitable, low smoke development, IMO approved.
- No volatile emissions by liquid raw materials or additives, for better indoor air quality and advanced cleanroom applications.
- Excellent dimensional stability as well as indentation and wear resistance meeting or exceeding applicable industry standards.



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