The repairable surface

Deep scratches, holes, burns or other surface damage can be easily and effectively repaired, without leaving any visible trace or affecting the original characteristics of the floor. This genuine, 100% repairable surface is unique to Colorex and something that no other flooring system can promise.

Invisible repairs
Deep scratches and other serious damage can be repaired using heat welding. A small strip of Colorex of the same colour should be welded directly into the damage using a hand welding machine. After the excess material has been removed, the repaired spot can be restored to its original quality and appearance by sanding and dry polishing.

- Unique 100% repairable surface
- Scratches or serious damage can be solved
- It will be restored to a good-as-new condition

Repair
Problem: Deep and long scratches, holes and burns
Advantage: Invisible repairs without damaging the initial characteristics of the product
Reason: Thanks to a compact high pressure pressed surface a PUR treatment is not necessary

Abresive cleaning
Problem: Surface damage like burn, abrasion or staining
Advantage: Abresive cleaning possible
Reason: Thanks to its compact high pressure pressed surface a PUR treatment is not necessary

Maintenance
Surface damage such as burns or discoloration from colouring chemicals can be removed by sanding with a conventional eccentric sander. Use a sand paper grade of 80 to start with and thereafter grades of up to 240. After sanding, the surface can be restored to its original quality and appearance by dry polishing with a red pad.

- Easy sanding with conventional equipment
- Restore to its original quality and appearance by simply polishing

Repair
Problem: Deep and long scratches, holes and burns
Advantage: Inreal repairable surface without damaging the initial characteristics of the product
Reason: Perfect homogenous product with low plasticizer content

Invisible repairs
Heat welding and material trimming
Sanding and dry polishing
Polishing

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Providing peace of mind
Forbo Flooring Systems is an international market leader with a wealth of experience in providing ESD and clean room flooring with probably the best known brand in the market place - Colorex. You can have peace of mind that Colorex complies to every standard and norm that is required today and likely to be required tomorrow.

Environmental credentials
We constantly strive to produce sustainable flooring systems that create better environments everywhere. At the same time we help take care of the natural environment through our commitment to sustainable development, responsible raw material procurement and manufacturing processes. For example our Colorex collection contains 15% post industrial recycled content, is manufactured using green electricity and is REACH compliant.

The 8 benefits of Colorex
Colorex is the ideal flooring system for sectors such as electronics, pharmaceuticals, health, data centres and server rooms.

1 Colorex offers peace of mind as it fully complies with all ESD and clean room standards, including the Fraunhofer institute.

2 Colorex offers a life time conductivity warranty guaranteeing optimal performance throughout the life of the product.

3 The dense construction of Colorex provides a porefree surface ensuring the highest hygiene properties.

4 The low plasticiser content in Colorex tiles creates a unique dimensional stability and prevents shrinkage.

5 The low plasticiser content also ensures extremely low emissions and outgassing making Colorex the right choice for clean rooms.

6 The surface of Colorex can be fully repaired extending the useful life of the product.

7 The dense construction of Colorex provides excellent resistance to heavy loads making it an ideal solution for commercial and industrial environments.

8 Colorex is available in tile format, a prerequisite for raised access floors found in many commercial environments such as data centres and server rooms.

Protecting your technology.
Colorex is an advanced technical flooring system specifically designed to control static discharge in sensitive areas such as cleanrooms, operating theatres and the electronics industry. Not only does Colorex provide an advanced technical solution, it is also aesthetically pleasing, enhancing any commercial interior from industrial to educational establishments.
The unique manufacturing process of Colorex provides all the features normally associated with ESD sheet product but with the additional benefits mentioned above that the tile format offers. ESD sheet products require a high percentage of plastisicer content which can result in out-gassing. In contrast, Colorex tiles have a small percentage plastisicer content and as a result, very low out-gassing.

Advantages
- The conductive coating on the chips ensures that the unique electro dissipative properties are consistent throughout the product.
- The conductive coating guarantees life long conductivity that remains unaffected by changes in humidity and temperature.

Advantages
- The tiles are easy to work with and allow for straightforward installation and reduced installation waste when compared to sheet products.
- Colorex is a highly compressed tile with a compact, pore free, easy clean and repairable surface.

Colorex is available with three levels of conductivity, each of which can be installed as described above. The loose lay version slip resistant (R11 plus) completes the comprehensive Colorex high tech solutions offer.

We start where others stop
Colorex is only available in tile format as this enables quicker installation, especially in small and medium areas or rooms with irregular shapes. The tile format also ensures less wastage than sheet, making it environmentally preferable option.

The Colorex system
Colorex can be used in many different applications. It can be installed by fully adhering it directly to a subfloor or bonding it to a raised access floor panel. It can also be laid as part of a loose-lay tile system. Colorex is available with three levels of conductivity, each of which can be installed as described above. The loose-lay version slip-resistant (R11 plus) completes the comprehensive Colorex high tech solutions offer.

1. Construction Colorex
   - copper band
   - conductive glue
   - subfloor

2. Step 1: Chips and conductive coating
   - Small vinyl chips are coated with a conductive substance.

3. Step 2: High pressure production
   - Applying very high pressure and high temperature, these coated chips are then compressed into solid blocks of homogeneous material.

4. Step 3: Splitting and surface treatment
   - Colorex tiles are cut from the solid blocks of homogeneous material and machine finished to provide a pore free surface.

The Colorex system
Colorex is only available in tile format as this enables quicker installation, especially in small and medium areas or rooms with irregular shapes. The tile format also ensures less wastage than sheet, making it environmentally preferable option.
Colorex EC
Highperform

Functionality:
Permanently conductive

Description:
Colorex EC is a high performance floor covering system that is ideal for applications where the floor has to be easily accessible after installation. The tiles connect to each other immediately accessible. There’s no need for special subfloor preparations and downtimes are not acceptable, it can be installed without any interruptions and is inexpensive preparatory measures.

Application:
areas: theatres, laboratories, production sites and operating theatres.

Colorex SD
Performance

Functionality:
Permanently static dissipative

Description:
Colorex SD is an electrostatic dissipative floor covering system that is ideal for applications where static discharge is required. The tiles connect to each other immediately accessible. There’s no need for special subfloor preparations and downtimes are not acceptable, it can be installed without any interruptions and is inexpensive preparatory measures.

Application:
areas: theatres, laboratories, production sites and operating theatres.

Colorex EC plus
High performance

Functionality:
Permanently conductive

Description:
Colorex EC plus is a high performance floor covering system that is ideal for applications where the floor has to be easily accessible after installation. The tiles connect to each other immediately accessible. There’s no need for special subfloor preparations and downtimes are not acceptable, it can be installed without any interruptions and is inexpensive preparatory measures.

Application:
areas: theatres, laboratories, production sites and operating theatres.

Finishing solutions
In highly sensitive health care areas, and wherever that floor has to be easily accessible after installation. Colorex SD enables safe electrostatics. The tiles connect to each other immediately accessible. There’s no need for special subfloor preparations and downtimes are not acceptable, it can be installed without any interruptions and is inexpensive preparatory measures.

Colorex ramp
Functionality:
Permanently conductive

Description:
Colorex ramp is a ramp designed for an above line floor. Designed in such a way that it can be easily disassembled and reassembled. The ramp is ideal for a complex subfloor renovation can begin to add up before disassemble heavy production equipment and the cost of intensive endeavour. The downtime needed to move or intensive endeavor. The downtime needed to move or intensive endeavor.

Application:
areas: laboratories, production sites, pharmaceutical laboratories, production sites, pharmacies, pharmaceutical laboratories and operating theatres.

Colorex welding rods
Functionality:
Permanently conductive

Description:
Colorex welding rods are available in colours to match the main Colorex tile. All the accessories on this page and Colorex tiles can be welded with Colorex welding rod. These are grey or colour matched to the main Colorex tile

Application:
areas: laboratories, pharmaceutical laboratories and production sites.

Colorex plus
Functionality:
Permanently conductive

Description:
Colorex plus is an electrostatic dissipative floor covering system that is ideal for applications where static discharge is required. The tiles connect to each other immediately accessible. There’s no need for special subfloor preparations and downtimes are not acceptable, it can be installed without any interruptions and is inexpensive preparatory measures.

Application:
areas: theatres, laboratories, production sites and operating theatres.

Colorex EC
Highperform

Functionality:
Permanently conductive

Description:
Colorex EC is a high performance floor covering system that is ideal for applications where the floor has to be easily accessible after installation. The tiles connect to each other immediately accessible. There’s no need for special subfloor preparations and downtimes are not acceptable, it can be installed without any interruptions and is inexpensive preparatory measures.

Application:
areas: theatres, laboratories, production sites and operating theatres.

Colorex SD
Performance

Functionality:
Permanently static dissipative

Description:
Colorex SD is an electrostatic dissipative floor covering system that is ideal for applications where static discharge is required. The tiles connect to each other immediately accessible. There’s no need for special subfloor preparations and downtimes are not acceptable, it can be installed without any interruptions and is inexpensive preparatory measures.

Application:
areas: theatres, laboratories, production sites and operating theatres.
Colorex Basic plus

**Standard** (only available on request)

### 1. Colorex fully adhered directly to the floor
Colorex can be installed onto a solid subfloor. When conductive properties are required, this should be done by firstly using a conductive primer after which copper tape, connected to an earth point, and conductive adhesive can be used. When Colorex is installed on a solid subfloor, the static charged is drained to earth via the earth point. When conductivity is not required a standard primer and adhesive can be used. When installed on solid floors, Colorex can withstand heavy loads for fork lift trucks without being damaged. The welding of Colorex tiles is optional for ESD areas; however, it is recommended for cleanrooms. The unique dimensional stability of Colorex ensures no shrinkage and therefore a correctly installed weld will never open up.

### 2. Colorex bonded to a raised access floor panel
Colorex is bonded to a raised access floor panel that can be used in cleanrooms or data centers. Due to the strength and unique properties of Colorex, it is suitable for use on all formats of raised access floor panels, including those designed to withstand the heavy point loading found in data centers. Since Colorex has extremely low emissions and a high density, it can be perforated for air flow systems that are often used in combination with raised access floors.

### 3. Colorex as loose lay tile
Colorex plus is a high performance floor covering system consisting of loose lay tiles for all areas of application where expensive sub floor preparation or downtime is an issue. Specific sub floor treatment or preparation is not necessary as long as the floor is reasonably level. Colorex plus can be installed without dissolved activity and can be used immediately after installation, even by fork lift trucks. The unique honeycomb structure on the underside of Colorex plus allows damp floors to be ventilated during use. Colorex plus tiles offer all the benefits associated with Colorex, along with a unique dowel system that remains hidden under the surface. Colorex plus is available as an Electrical Conductive (EC) high performance version (R11) or can be ordered on request as a Static Dissipative (SD) performance version. Additionally, there is a standard version for installations where a high level of conductivity is not required. Colorex plus collection is completed with an R11 slip resistant option that can be used in conjunction with all other types of Colorex plus tiles for areas of heavy duty usage. A range of specially developed ramps and skirtings are available for use with Colorex plus to provide a complete installation solution.

<table>
<thead>
<tr>
<th>Functionality</th>
<th>R11 plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Slip resistant to R11</td>
</tr>
<tr>
<td>Application areas</td>
<td>Industrial areas, garages, warehouses. Suitable when down time, damp floors or poor sub floors are an issue</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Functionality</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Resistant / separable</td>
</tr>
<tr>
<td>Application areas</td>
<td>Shops, stores, warehouses. Suitable when damp floors or poor sub floors are an issue</td>
</tr>
</tbody>
</table>

The product has enhanced slip resistance categorized as R11 due to its strong surface embossed structure. Only available in colourway 601060.
The right floor makes the difference
Reducing the generation of electrostatic charges is the main purpose of control measures in ESD protected areas (EPA). In such areas like electronics assembly, mechatronics and data centres the right floor covering plays a crucial role. It does not only drain electrostatic charges from personnel and equipment, but it also reduces the generation of charges where they occur, at the interface between the soles of shoes and the floor.

Consistent conductivity throughout the product’s lifetime
The unique construction of Colorex EC and Colorex SD is completely free from volatile chemicals, ensures the permanent and stable conductive performance of the floor over its entire life time, regardless of changes in humidity and temperature.

We guarantee more than resistance
Forbo Flooring guarantees consistent performance. We measure the electrical resistance of every single production batch of Colorex EC and Colorex SD and upon request, we can provide a test report clearly showing the results of our measurements.

Low body voltage generation
It is a natural phenomena that anybody can accumulate an electrostatic charge just by the simple motion of walking. By wearing the appropriate ESD shoes however, these charges will be securely drained through the dense network of conductive veins of Colorex EC and Colorex SD.
In cleanroom environments in the pharmaceutical, life sciences and manufacturing industries, airborne particles can be a major source of contamination. Not only can they cause yield loss, the particles can also lead to corrosion and product degradation. ISO standards and cGMP regulations for air purity require you to comply by presenting consistent results that can be verified on a regular basis. Ideal for cleanrooms and these kinds of environments, Colorex satisfies the strictest requirements for particle release behaviour, helping to reduce any threat of contamination. What’s more, following a comprehensive programme of testing, its suitability in cleanroom applications has been certified by the renowned Fraunhofer IPA Institute in Germany.

Colorex EC was tested for the following:

- Airborne particle emission test and cleanroom suitability (ISO 14644-1)
- Outgassing analysis and classification (ISO 14644-8)
- Adhesion of microorganisms
- Assessment of microbial metabolic potential (ISO 846)
- Chemical resistance (ISO 2812-1)
- Cleanability rating (VDI guideline 2083 Part 4)
- cGMP classification complying to Class A

Products:
- Colorex SD
- Colorex EC
- Colorex EC plus

Cleanroom flooring for the highest standards
Hygiene and safety for sensitive hospital areas

A demanding area
In sensitive hospital areas such as operating theatres, intensive care units and imaging diagnostic facilities, flooring presents its own unique challenges. Not only must it comply with stringent hygiene regulations to help prevent hospital acquired infections, it must also demonstrate that it meets any necessary safety requirements. Most importantly, it must prevent any electrostatic discharges as these can cause malfunctions, or even failures, in highly sensitive medical equipment and devices.

The highest standards of hygiene
Colorex satisfies all these requirements. Its conductive properties allow you to avoid the negative effects of an accumulation of static electricity. At the same time, the compact, pore-free surface is unfriendly to bacteria and moulds, helping you to maintain the highest standards of hygiene. Thanks to its excellent stability and consistent high quality, its aesthetic appeal won’t be tarnished by the regular cleaning and disinfecting cycles that are imperative in hospital environments. Colorex is highly stain resistant helping to ensure your investment will still look good in years to come.

Products:
• Colorex SD
• Colorex EC
• Colorex EC plus

Pore-free surface inhibits bacteria and moulds
Resistant to chemicals

Products:
• Colorex SD
• Colorex EC
• Colorex EC plus

Pore-free surface inhibits bacteria and moulds
Resistant to chemicals
Industrial flooring for heavy duty areas

Colorex offers you:

• High mechanical resistance and wear with no need for factory coating or additional surface hardening treatments
• Excellent chemical resistance thanks to the pore-free surface and a remarkably low percentage of plasticizer
• A 100% repairable and restorable solution that leaves no trace of abrasive treatment methods

Suitable for the most demanding applications

Industrial environments present their own flooring problems, particularly in areas with high wear and tear. Our Colorex high performance floor covering systems are designed for all industrial areas, including the most demanding of applications. Cut from a homogeneous, solid block of highly compressed material they have a high vinyl content and a well balanced amount of mineral filler for optimum performance.

Products:

• Colorex SD
• Colorex Basic plus
• R11 plus

Powered pallet truck and forklifts

Repairable and restorable solution. No downtime
The finishing detail – hygienic and aesthetic

In hygiene-sensitive areas, Colorex finishes not only look nice but are in many cases, a must from a hygienic point of view. The use of preformed corners and skirtings provides the perfect solution in terms of freedom of design combined with ease of maintenance.

The Colorex accessories have, amongst other benefits, preformed corners with a radius linked to the size of cleaning pads found on most commercial cleaning machines. This ensures that no sharp corners are created that would prove difficult to clean. Preformed corners are prevented from tearing because of their special construction. The inner reinforcement prevents the outer corners tearing or breaking, due to high mechanical pressure, e.g. the rotation of a cleaning machine.

Colorex collection

<table>
<thead>
<tr>
<th>Color</th>
<th>Picture</th>
<th>SD 150201</th>
<th>EC 250201</th>
<th>SD 150202</th>
<th>EC 250202</th>
<th>SD 150203</th>
<th>EC 250203</th>
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<tbody>
<tr>
<td>Alizarin</td>
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</tbody>
</table>

Technical specifications Colorex

<table>
<thead>
<tr>
<th>Property</th>
<th>SD 150201</th>
<th>EC 250201</th>
<th>SD 150202</th>
<th>EC 250202</th>
<th>SD 150203</th>
<th>EC 250203</th>
</tr>
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<tbody>
<tr>
<td>Total weight ISO 23997 / EN 430</td>
<td>3.2 kg/m²</td>
<td>3.2 kg/m²</td>
<td>12.4 kg/m²</td>
<td>12.4 kg/m²</td>
<td>11.4 kg/m²</td>
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</tr>
<tr>
<td>Slip resistance DIN 51130</td>
<td>R9</td>
<td>R9</td>
<td>R9</td>
<td>R9</td>
<td>R11</td>
<td></td>
</tr>
<tr>
<td>Dimensional stability ISO 23999 / EN 434</td>
<td>0.05%</td>
<td>0.05%</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
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</tr>
<tr>
<td>Impact Sound Reduction EN ISO 140-8</td>
<td>2 dB</td>
<td>2 dB</td>
<td>12 dB</td>
<td>12 dB</td>
<td>12 dB</td>
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<tr>
<td>Abrasion resistance EN 660-2 Group M</td>
<td>Group M</td>
<td>Group M</td>
<td>Group M</td>
<td>Group M</td>
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<tr>
<td>Residual Indentation ISO 24343-1</td>
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<td>n.a.</td>
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<td>n.a.</td>
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<tr>
<td>Total TVOC 28 days</td>
<td>&lt; 1 μg/cm²</td>
<td>&lt; 1 μg/cm²</td>
<td>&lt; 2 μg/cm²</td>
<td>&lt; 2 μg/cm²</td>
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<tr>
<td>Thermal conductivity EN 12524</td>
<td>0.28 W/(m·K)</td>
<td>0.28 W/(m·K)</td>
<td>0.28 W/(m·K)</td>
<td>0.28 W/(m·K)</td>
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<tr>
<td>Reaction to fire EN 13501-1</td>
<td>Bfl-s1</td>
<td>Bfl-s1</td>
<td>Bfl-s1</td>
<td>Bfl-s1</td>
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<tr>
<td>Thermal expansion Coef.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>0.11 mm/m°C</td>
<td>0.11 mm/m°C</td>
<td>0.11 mm/m°C</td>
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</tr>
<tr>
<td>Electrical resistance</td>
<td>R &lt; 3.5 x 10⁷ Ω</td>
<td>R &lt; 3.5 x 10⁷ Ω</td>
<td>n.a.</td>
<td>n.a.</td>
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<tr>
<td>Chemical Resistance ISO 26787 / EN 423</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
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</tr>
<tr>
<td>CE marking EN 14041</td>
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<td>Compliant</td>
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<tr>
<td>ESD resistance</td>
<td>R &lt; 3.5 x 10⁷ Ω</td>
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</tr>
<tr>
<td>Body Voltage Generation, Industrial heavy ISO 10874 / EN 685</td>
<td>43 V</td>
<td>43 V</td>
<td>43 V</td>
<td>43 V</td>
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<tr>
<td>Body Voltage Generation, Commercial very heavy ISO 10874 / EN 685</td>
<td>34 V</td>
<td>34 V</td>
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<tr>
<td>Slipping resistance</td>
<td>615x1230 mm*</td>
<td>608x608 mm</td>
<td>608x608 mm</td>
<td>608x608 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaction to static electricity</td>
<td>615x1230 mm*</td>
<td>608x608 mm</td>
<td>608x608 mm</td>
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<td></td>
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<tr>
<td>ESD STM 97.1</td>
<td>R &lt; 3.5 x 10⁷ Ω</td>
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<td></td>
</tr>
<tr>
<td>IEC 61340-4-1</td>
<td>106 ≤ R ≤ 10⁸ Ω</td>
<td>5 x 10⁴ ≤ R ≤ 10⁶ Ω</td>
<td>2.5 x 10⁴ ≤ R ≤ 10⁶ Ω</td>
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<tr>
<td>ESD STM 97.2</td>
<td>10⁴ ≤ R ≤ 10⁶ Ω</td>
<td>10⁴ ≤ R ≤ 10⁶ Ω</td>
<td>10⁴ ≤ R ≤ 10⁶ Ω</td>
<td>10⁴ ≤ R ≤ 10⁶ Ω</td>
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<td></td>
</tr>
<tr>
<td>ANSI/ESD 7.1</td>
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<td>10⁴ ≤ R ≤ 10⁶ Ω</td>
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<td>ESD STM 97.3</td>
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<td>EN 1081 (100V)</td>
<td>40 V</td>
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<td>&lt; 2 kV</td>
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<td>EN 280</td>
<td>1.0 x 10⁷ Ω</td>
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<td>EN 13856</td>
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<td>EN 1815</td>
<td>40 V</td>
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<td>&lt; 2 kV</td>
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<tr>
<td>EN 61326-2-2</td>
<td>1.0 x 10⁷ Ω</td>
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<td>2,0 mm / 3,0 mm*</td>
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<td>10,5 mm</td>
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<td>TKB</td>
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<td>Fire resistant accessories, 300°C, 60 min</td>
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<td>Fire resistant accessories, 700°C, 60 min</td>
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</table>

* Provided on request
** Product also tested to ASTM. Results available on request
* Available on request

Colorex now meets the requirements of EN 649 and EN 14041 with ISO 9001 and ISO 14001. The quality and environmental management system of Forbo Giubiasco S.A. (CH) where Forbo Colorex is manufactured are certified in accordance with ISO 9001 and ISO 14001.