

**ColoRex<sup>®</sup>**  
more than a floor

forbo's leading static control floor covering  
for the electronic and telecommunications industry



**forbo**

LINOLEUM

high quality, experience and competence...

## ColoRex® SD and EC - product description



















ColoRex® is a homogeneous pressed tile collection. Due to high vinyl content and the high-pressure manufacturing process, the tiles have excellent resistance against wear and indentation; in case of accidental damages their surface can be repaired/restored. The smooth, non-porous surface of the tiles resists well to chemicals and is easy to clean. The antistatic and dissipative properties are permanent and not dependent on ambient humidity. The UniGrid® backing ensures reliable dissipative properties after installation.

## Areas of application

**ColoRex® SD:** Electronic industry, process control and survey rooms, laboratories, health care, micromechanics, printing, textile, medical device and pharmaceutical industries; all commercial and industrial areas with heavy traffic.

**ColoRex® EC:** Clean rooms, electronic research / manufacturing / assembling / testing areas, civil and military telecommunications, production of optical devices, health care / operating theatres / intensive care, etc, laboratories, computer rooms.

# technical features

	SD Static Dissipative	EC Electrostatic Conductive
 <b>Classification</b> EN 685 EN 649	 34 43	
 <b>Thickness</b> EN 428	0.080" (2.0 mm) 3.0 mm *	
 <b>Size of tiles</b> EN 427	24" x 24" (61cm x 61cm) 61.3 x 61.3 cm * 122.6 x 61.3 cm *	
 <b>Dimensional stability</b> EN 434	lengthwise / crosswise 0.05%	
 <b>Residual indentation</b> EN 433 / DIN 51955 <b>Static load limit</b> ASTM F-970	0.035 mm exceeds 1500 Pounds/psi	
 <b>Wear resistance</b> EN 660-1 / DIN 51963	Wear group M	
 <b>Effect to castor chair</b> EN 425	no damage	
 <b>Slip resistance</b> DIN 51130 Federal Standard and A.D.A. requirements prEN 13 893	R9 meets or exceeds 0.6 for flat surface $\mu = 0.89$	
 <b>Electrical resistance</b> DIN 51953 EN 1081 IEC 61340 EOS/ESD S7.1 ESD STM 97.1 (with ESD Shoes)	$10^6 \leq R \leq 10^8 \Omega$ $R \leq 10^8 \Omega$ $10^6 \leq R \leq 10^8 \Omega$ (DIF) $10^6 \leq R \leq 10^8 \Omega$ -	$5 \times 10^4 \leq R \leq 1 \times 10^6 \Omega$ $R \leq 1 \times 10^6 \Omega$ $5 \times 10^4 \leq R \leq 1 \times 10^6 \Omega$ (ECF) $2.5 \times 10^4 \leq R \leq 1 \times 10^6 \Omega$ $7.5 \times 10^5 \leq R \leq 3.5 \times 10^7 \Omega$
 <b>Body voltage generation</b> ESD STM 97.2 (with ESD Shoes)	$\leq 70$ Volt	$\leq 30$ Volt
 <b>Outgassing</b> IDEMA M11-99	TD-GC-MS results available on request	
 <b>Fire resistance</b> DIN 4102 / B 3810 / B 3800 ASTM E 648 / NFPA 253 ASTM E 662 / NFPA 258	difficult to ignite / low smoke development B1 / Q1 class 1 (1.1 Watts/cm <sup>2</sup> ) 450 or less	
 <b>Heat resistance</b> DIN 52612	0.011 m <sup>2</sup> K/W **	
 <b>Color fastness</b> ISO 105 B 02, Met. 3 - DIN 53389	7-8	
 <b>Resistance to chemical</b> EN 423 / DIN 51958	Offer good resistance to acid, alkalis, oils, petrol, alcohol and white spirit. When applied for a longer period (>24 hours) less resistance to certain other solvents such as aromatics (toulene, benzene), esters (ethylacetate), ketones (acetone) and chlorinated hydrocarbons. Detailed list available on request.	
 <b>Ease of decontamination</b> DIN 25415-1 / ISO 8690	excellent	
 <b>Recyclable</b>	yes	
<b>Fulfills product requirement</b> EN 649 SS-T-312B	yes meets or exceeds	

\* Upon request. \*\* Suitable for floor heating systems.

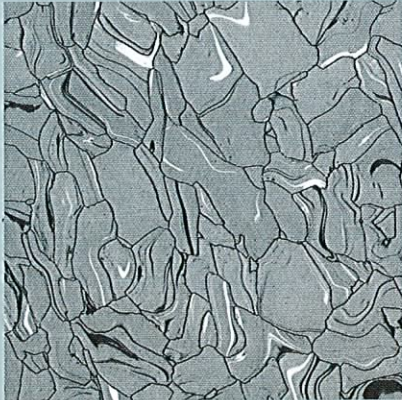
# ColoRex<sup>®</sup>

more than a floor

classic



Lemon  
SD 150230 / EC 250230



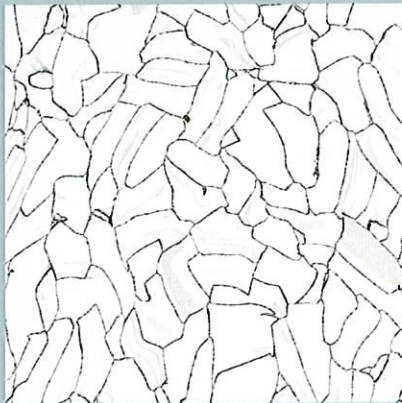
Quartz  
SD 150207 / EC 250207



Granite  
SD 150208



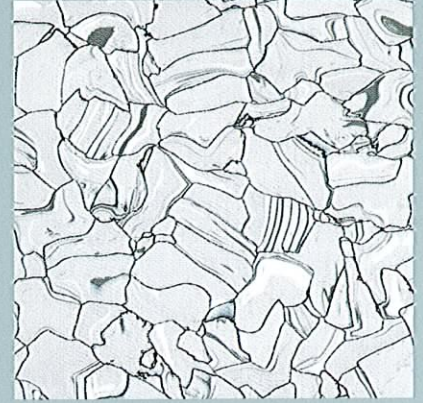
Basalt  
SD 150209 / EC 250209



Everest  
SD 150201 / EC 250201



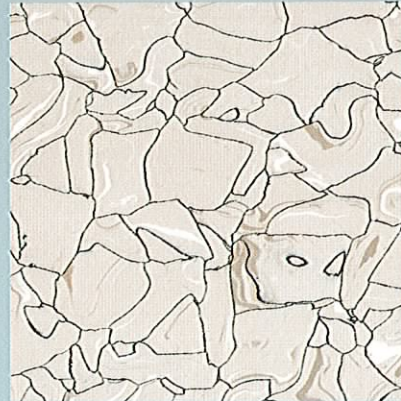
Montblanc  
SD 150204 / EC 250204



Adula  
SD 150205 / EC 250205



Gobi  
SD 150211 / EC 250211



Sahara  
SD 150213 / EC 250213



Kalahari  
SD 150214

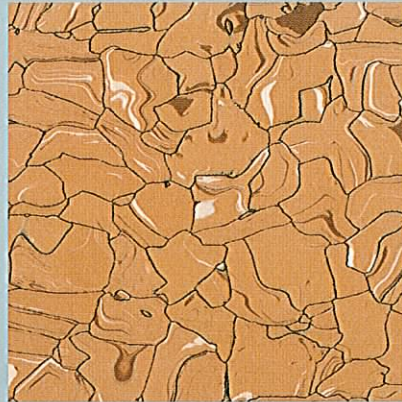
SD Denotes Static Dissipative:  $10^9 - 10^{10}$  ohms resistance  
EC Denotes Electrostatic Conductive:  $2.5 \times 10^1 - 10^2$  ohms resistance



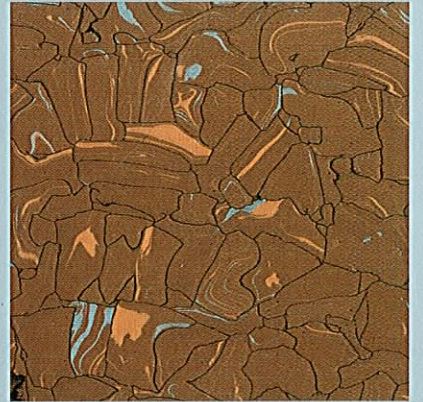
**Luna**  
SD 150229 / EC 250229



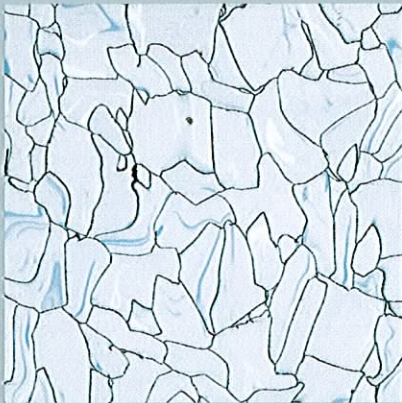
**Coral**  
SD 150216



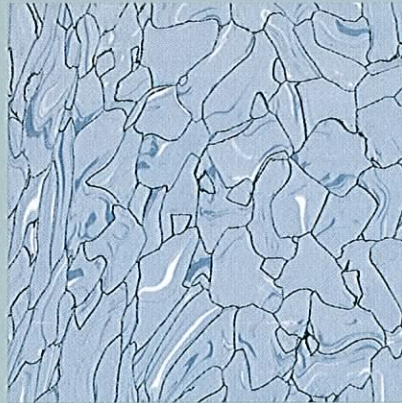
**Terracotta**  
SD 150217 / EC 250217



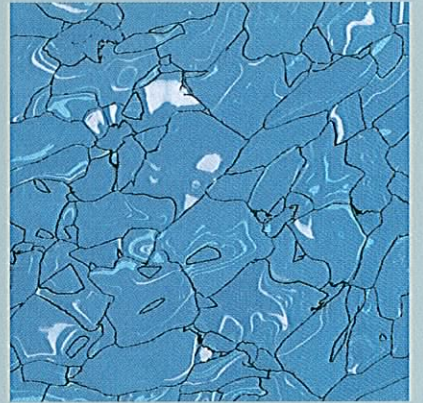
**Amber**  
SD 150218



**Pacific**  
SD 150221 / EC 250221



**Niagara**  
SD 150222 / EC 250222



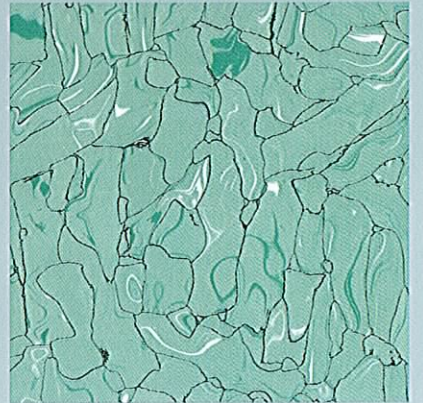
**Atlantic**  
SD 150223 / EC 250223



**Mint**  
SD 150226 / EC 250226



**Jasmine**  
SD 150227



**Basil**  
SD 150228 / EC 250228

SD Denotes Static Dissipative:  $10^3 - 10^9$  ohms resistance  
EC Denotes Electrostatic Conductive:  $2.5 \times 10^3 - 10^9$  ohms resistance

## installation

ColoRex® must be installed on a flat, smooth, rigid, clean and permanently dry subfloor. The moisture content of concrete subfloors should not exceed 2.5% when measured according to the CM method or 5 lbs./1000 sq.ft. in 24 hours when tested according to ASTM F 18069. Prior to installation, the ColoRex® tiles must be acclimatized for at least 24 hours at a minimum temperature of 18°C. Temperature should remain constant before, during and 48 hours after installation. Use a copper strip for earth connection. The use of a conductive acrylic dispersion Forbo adhesive is recommended.

Apply the adhesive following the manufacturer's instructions. Roll floor with a 50 kg roller. Seam welding and flash cove skirting are optional. Homogeneous welding is possible for the finishing of inner and outer corners.

For ESD protective installations do not apply any wax or floor finish as they might reduce the conductive properties of the floor.



## maintenance

Routine maintenance of ColoRex® should consist of 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.

For extraordinary maintenance procedures such as construction end cleaning or restorative maintenance, please ask for our detailed manuals.



## homogeneous welding

With the ColoRex® homogeneous welding technique, various types of smooth inner and outer corners can be achieved, perfectly curved and invisibly welded, for a minimum of maintenance and a maximum of safety. ColoRex® homogeneous welding is not a secret we keep for us, the necessary abilities can be learned and trained at the installation courses held by Forbo Flooring in Giubiasco.



## heat welding

Heat welding of the ColoRex® tiles is strongly recommended for those environments where wet cleaning methods are necessary and used regularly.

To obtain a correct weld, it is most important to observe a few simple rules:

- welding should not be carried out earlier than 24 hours after the installation is completed
- the minimum temperature of both the floor covering and the welding rod should be at least 16°C
- the room temperature should not be lower than 16°C and relative humidity between 30 and 70%

Groove the tiles along the joint lines with an appropriate grooving machine or by hand with a hand grooving tool.

Weld the ColoRex® welding rod into the clean grooves observing a welding temperature of 400°-450°C.

Trim off part of the excess welding rod with the crescent shape knife and the specific trimming slide while still warm. Wait until the remaining excess is cold before carrying out the final flush trim using a sharp crescent shape knife.

Please ask us for our detailed heat welding manual, with step-by-step instructions of the right procedures with the right tools.

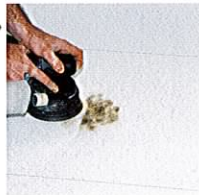




# 100% repairable

Deep and long scratches, holes, burns and other more or less severe surface damages on ColoRex® can be simply and effectively repaired, without leaving any trace and without affecting the ESD protective properties.

100% repairability is possible due to the perfect homogeneity of ColoRex® and the low content of plasticizer.



## 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, this will restore the original surface quality of ColoRex®.



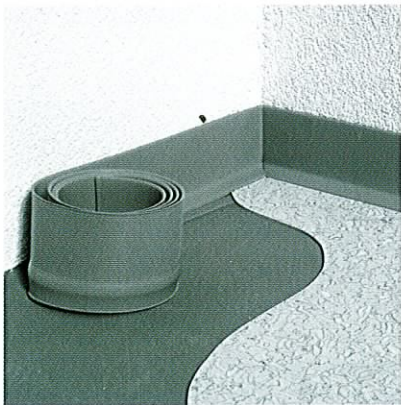
## homogeneous welding

Deep scratches and other physical damages of the ColoRex® tiles can be repaired by homogeneous welding. Cut a strip of ColoRex® from a tile of the same color reference of the one being repaired, slide the strip into the special flat welding nozzle of a hot air gun and gently 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 sanding and polishing the repaired spot.

# accessories

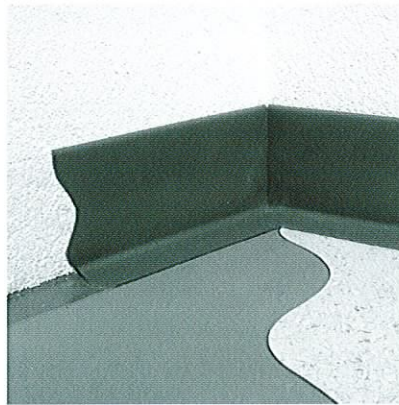
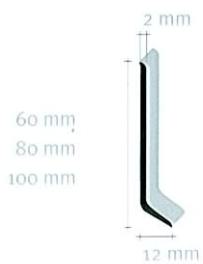
In addition to our standard and well-known range of installation accessories including Forbo conductive adhesives, copper strips and welding rods, we are offering a new, wide assortment of ancillary finishing products.

They include extruded skirting in ColoRex® matching colors, supporting profiles for correctly installed and perfectly curved inner corners and flash coverings as well as a choice of finishing profiles for the installation of ColoRex® on stairs.



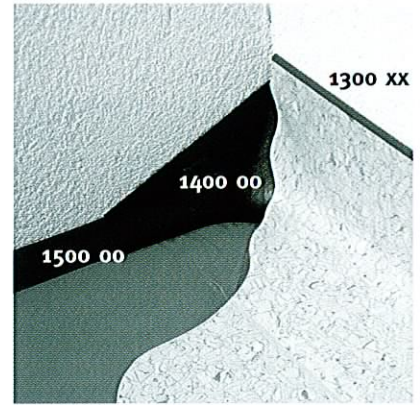
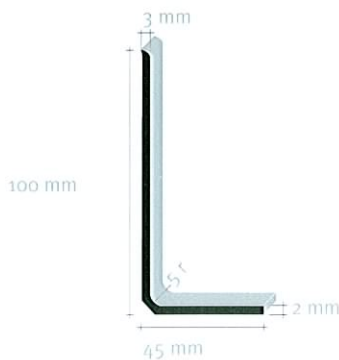
**Skirting**

1060 XX  
1080 XX  
1100 XX



**Skirting**

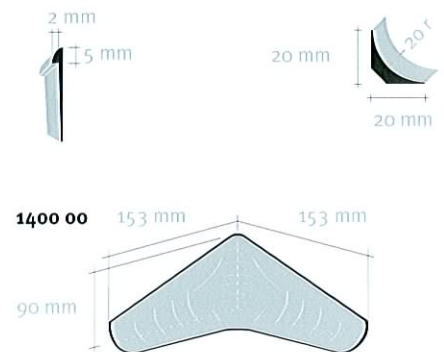
1200 XX



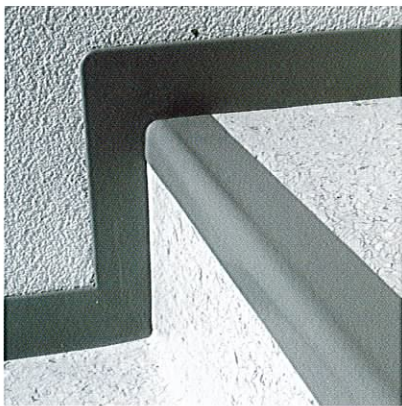
**Finishing profile, corner, cove**

1300 XX

1500 00

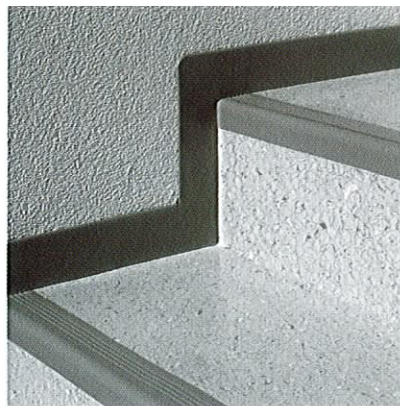
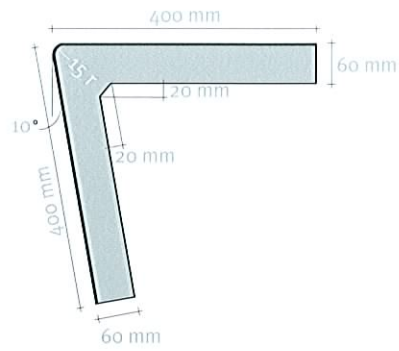


**2200 XX**



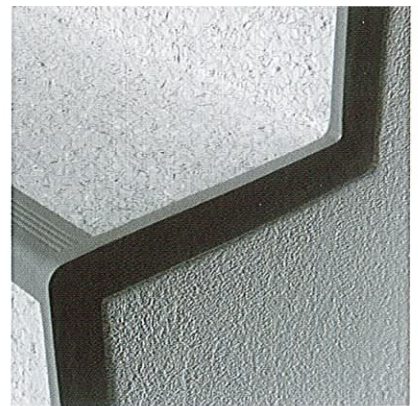
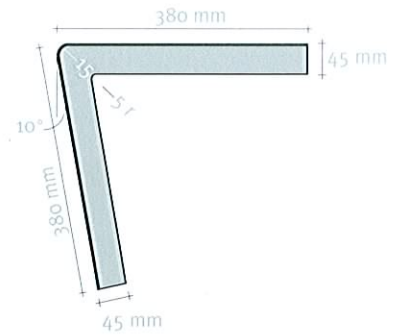
**Stair edge**

**3100 XX**



**Stair, inner finishings**

**3200 XX**

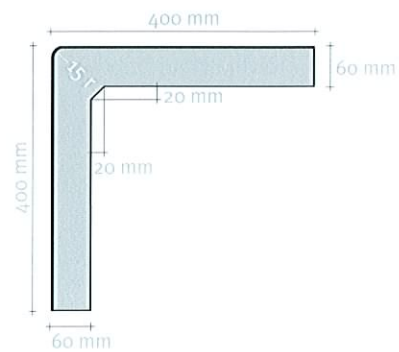


**Stair, outer finishings**

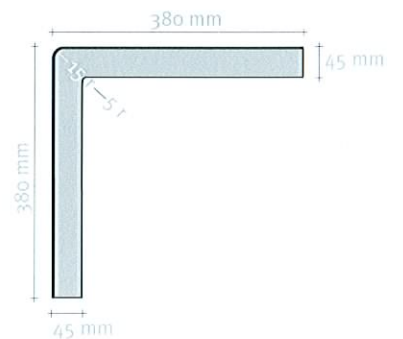
**2100 XX**



**4100 XX**



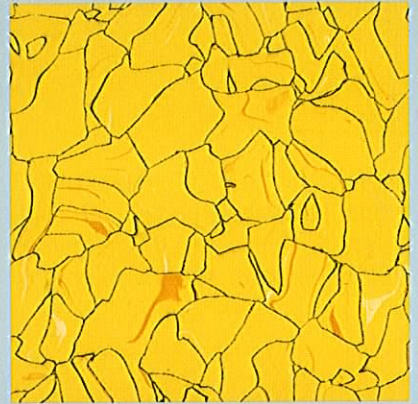
**4200 XX**



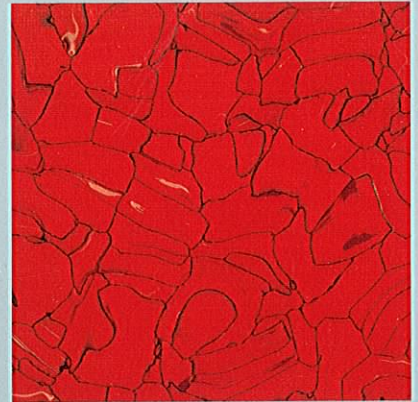
# ColoRex<sup>®</sup>

more than a floor

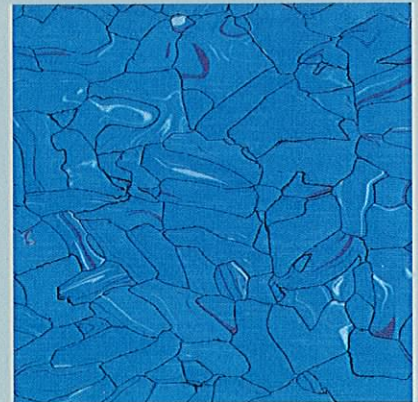
signal



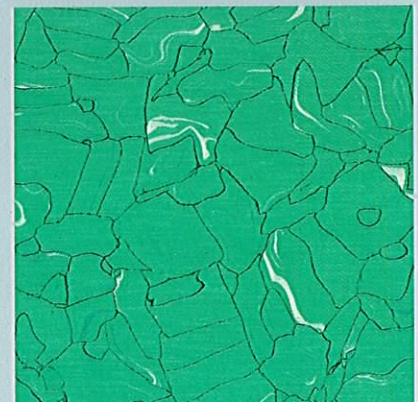
**Sole**  
SD 150231



**Fuego**  
SD 150233



**Azzurro**  
SD 150235

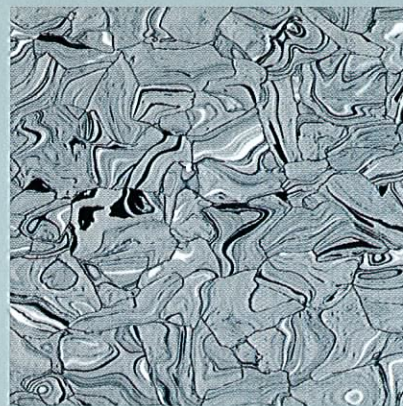


**Amazonas**  
SD 150237

SD Denotes Static Dissipative:  $10^6 - 10^8$  ohms resistance

**ColoRex<sup>®</sup>**  
more than a floor

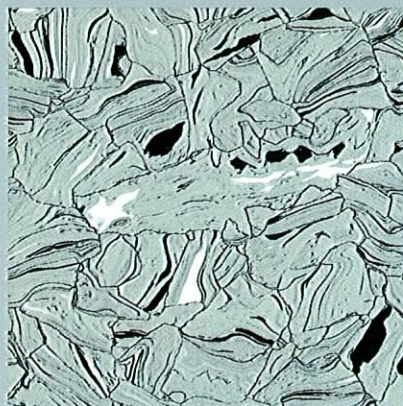
marmo



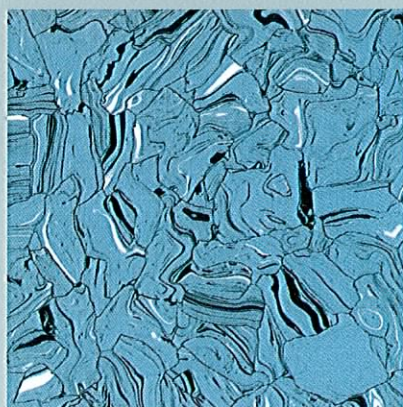
**Calanca**  
SD 150242



**Leventina**  
SD 150244










































































**Verzasca**  
SD 150246



**Bavona**  
SD 150248

## colors and reference numbers

	SD Static Dissipative	EC Electrostatic Conductive	Welding rods
Sole	 SD 15 02 31		 15 09 31
Fuego	 SD 15 02 33		 15 09 33
Azzurro	 SD15 02 35		 15 09 35
Amazonas	 SD 15 02 37		 15 09 37
Quartz	 SD 15 02 07	 EC 25 02 07	 15 09 07
Granite	 SD 15 02 08		 15 09 08
Basalt	 SD 15 02 09	 EC 25 02 09	 15 09 09
Everest	 SD 15 02 01	 EC 25 02 01	 15 09 01
Montblanc	 SD 15 02 04	 EC 25 02 04	 15 09 04
Adula	 SD 15 02 05	 EC 25 02 05	 15 09 05
Gobi	 SD 15 02 11	 EC 25 02 11	 15 09 11
Sahara	 SD 15 02 13	 EC 25 02 13	 15 09 13
Kalahari	 SD 15 02 14		 15 09 14
Coral	 SD 15 02 16		 15 09 16
Terracotta	 SD 15 02 17	 EC 25 02 17	 15 09 17
Amber	 SD 15 02 18		 15 09 18
Pacific	 SD 15 02 21	 EC 25 02 21	 15 09 21
Niagara	 SD 15 02 22	 EC 25 02 22	 15 09 22
Atlantic	 SD 15 02 23	 EC 25 02 23	 15 09 23
Mint	 SD 15 02 26	 EC 25 02 26	 15 09 26
Jasmine	 SD 15 02 27		 15 09 27
Basil	 SD 15 02 28	 EC 25 02 28	 15 09 28
Luna	 SD 15 02 29	 EC 25 02 29	 15 09 29
Lemon	 SD 15 02 30	 EC 25 02 30	 15 09 30
Calanca	 SD 15 02 42		 15 09 42
Leventina	 SD 15 02 44		 15 09 44
Verzasca	 SD 15 02 46		 15 09 46
Bavona	 SD 15 02 48		 15 09 48

Printed colors may slightly differ from actual product.

perfection and cleanliness down to detail



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