



the future is safer with altro

Altro Tierra™ – Static-conductive flooring

Altro Tierra is a conductive, flexible vinyl flooring system with permanent anti-static properties ($\leq 20V$ according to IEC61340-4-5 and $\leq 2kV$ according to EN1815).

Static electricity is caused by friction between two materials; a person walking across a vinyl floor is a perfect example. The contact between foot and floor builds up an electric charge and as soon as that person comes into contact with a conductive element such as a door handle, metal equipment or another person, Electro Static Discharge (ESD) occurs. Static shocks are unpleasant but harmless to us however, it can cause electronic equipment to malfunction or stop working altogether. The spark created by an ESD can also be enough to ignite flammable materials.

In healthcare, the high tech industry and clean rooms, where equipment failure is not an option and hazardous chemicals need to be used and stored safely, Altro Tierra gives the highest level of protection against ESD, when conductive footwear is worn.

Altro Tierra is a 2mm flooring solution which acts as a continuous conductive $10^4 \leq R_t \leq 10^6$ Ohms (EN 1081), and complies with EN 649. Its conductive backing and carbon encapsulated granules throughout mean it's effective in low charge generation (from ≤ 100 to ≤ 20 V according to the IEC 61340-4-5) and eliminates charges over time, preventing ESD.

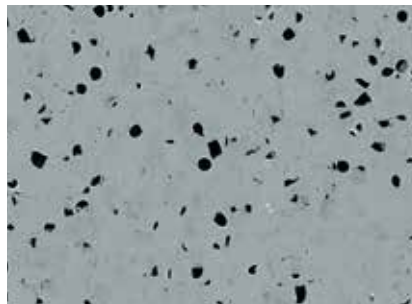
Non-absorbent and non-porous, Altro Tierra's homogenous surface means it performs well in the highly trafficked environments that use heavy and wheeled equipment. Resistant to both the acid and alkaline chemicals used in detergents, Altro Tierra is also durable in these environments which typically require effective and hygienic cleaning.

Altro Tierra has no carcinogenic or formaldehyde emissions and low VOC gas emissions at $\leq 10 \mu g / m^3$ after 28 days (according to ISO 16000-6). No raw materials used in the manufacture of Altro Tierra are subject to REACH* regulations.

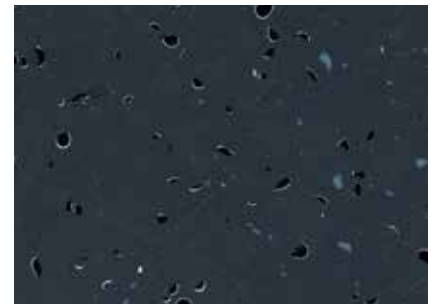
*REACH is a European Union regulation concerning the Registration, Evaluation, Authorisation and restriction of Chemicals.



Frost ATC2000
WR365 / A1M200 / LRV58



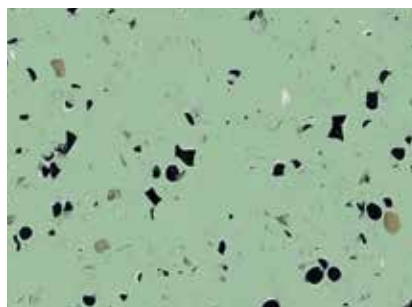
Atlantic ATC2002
WR366 / A1M200 / LRV38



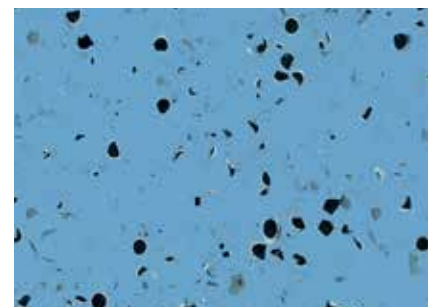
Onyx ATC2001
WR382 / A1M200 / LRV8



Almond ATC2003
WR367 / A1M200 / LRV53



Apple ATC2005
WR384 / A1M200 / LRV38



Peacock ATC2004
WR383 / A1M200 / LRV36

Copper strip – ATCW/50 (50lm).

Experience has shown that printing cannot reproduce colours accurately. If colour choice is critical, please request a sample of the material.



the future is safer with altro

altro

Altro Tierra technical sheet

| | | | |
|-------------------------------------|--|---|--|
| Product approval | | EN649 | Smooth flooring |
| Classification for use | | EN 685 | 34 & 43 |
| Slip resistance | | DIN 51130 | R9 |
| Thickness | | EN 428 | 2mm |
| Flexibility | | EN 435 | Pass |
| Wear layer | | EN 429 | 2mm |
| Weight | | EN 430 | 3.06kg/m ² |
| Roll dimensions | | EN426 | 2m x 20m - 40m ² |
| Light fastness | | EN 20105-B02 | ≥6 |
| Sound insulation | | ISO 140-8 | 7dB |
| Wear resistance | | EN 660-2 | Group P |
| Indentation | | EN 433 | ≤0.10mm |
| Fire performance | | EN 13501-1 EN ISO 9239-1 EN ISO 11925-2 | Class Bfl s1 ≥8kW/m ² Pass |
| Chemical resistance | | EN 423 | OK |
| Suitability for under floor heating | | EN 12524 (thermal conductivity) | Suitable 0.25W/(m/K) |
| Electrical behaviours | | EN1081 IEC 61340-4-1 ANSI / ESD-S7.1 | 10 ⁴ ≤ R ≤ 10 ⁶ Ohms R ≤ 10 ⁸ Ohms 2.5 x 10 ⁴ ≤ R ≤ 10 ⁶ Ohms |
| Static electric propensity | | EN1815 IEC 61340-4-5 | ≤2kV ≤20V |

All information is correct at the time of print and is subject to change without prior notice.

For further information or technical advice tel: +44 (0) 1462 707604 fax: +44 (0) 1462 707515 email: enquiries@altro.com or explore www.altro.com