





Stratica: For all the right reasons

Design professionals today face challenges in their search for high performance building products with sustainable design that will reduce the environmental impact of their projects.

With over 40 years experience in producing premium resilient flooring, Amtico International has a well defined understanding of the challenges faced by those of you specifying for the environmentally conscious.

Stratica eco-polymeric flooring was developed to enhance the overall function of the facilities in which it is installed. By achieving this, we have given designers an opportunity to create an environment in which people can thrive while working, learning and healing.

Stratica is a ground breaking eco-polymeric flooring offering unrivalled environmental benefits, superior aesthetics and high performance.





Stratica: The Natural Choice

We want our products to make an impact, but not on the environment. As a multi-national manufacturer we take our responsibilities to the world very seriously. So we continually monitor and review our processes and products to improve their environmental performance.

In today's world where healthy surroundings are commanded, Stratica is a step in the right direction.

- Contains no chlorine and no plasticisers
- Stratica offers outstanding indoor air quality with no detectable VOC emissions and the adhesive used is in the lowest VOC category (EC I)
- Stratica requires no dressings or sealers and is maintained with only neutral cleaners, minimising the environmental impact
- Reduces foot fatigue and noise levels promoting the well being of users
- Amtico International is the first company in our field to be awarded the ISO 14001 Environmental Management System certification
- Made from 20% post industrial material



Stratica: High Quality – High Performance

What separates Stratica from other commercial flooring? Durability, unique construction, its low life cycle cost, and the environmental benefits to mention a few. Stratica's remarkable surface material is a durable polymer that requires no harsh chemicals to maintain.

- Stratica is very stain resistant and will not fade with age, heat or sunlight
- Life cycle costs are minimised as Stratica does not require the use of caustic chemicals for maintenance
- High sound absorption creates a more productive and healing environment
- Stratica's unique construction also delivers a light weight product and in the case of fire, a very low smoke density and toxicity

Stratica was not only developed to appeal to the environmental specifier but was also designed for them. Stratica's range of woods and stones gives unsurpassed realism with a strong visual impact. The new Fusion and Malabar collections present you with innovative non distinct designs to explore and create fresh ideas. Through Stratica's advanced design capabilities, designers and specifiers have the ability to direct foot traffic to various locations as well as provide individual detail.



THE CENTER FOR DISCOVERY, NEW YORK

We selected Stratica because it is Eco-polymeric, non PVC and virtually VOC free.

Stratica: Breathe Easy

As healthcare facilities endeavour to create warm and welcoming environments for patients, visitors and staff, it becomes increasingly important for the decision makers who are responsible for improving quality *while controlling costs* to find products that meet the standards required.

The Center For Discovery, a residential school and outpatient facility for children and adults, is a place where breathing easy doesn't always come naturally – a place where air quality correlates directly with quality of life. Stratica was a perfect fit.

"Initially, we selected Stratica because it is Eco-Polymeric, non-PVC, and is virtually VOC free. But we found that it also possesses a number of other traits that make it even more appropriate. Stratica doesn't discolour. It doesn't track when wheelchairs roll across it. It's quiet. It has a matte finish. And most importantly, Stratica is very, very easy to maintain. Without the harsh chemicals that can be so damaging to the health of our residents and staff." Patrick Dollard, CEO, The Center for Discovery.

**"...the solution lies in safer,
healthier,
more relevant
building materials."**

Robin Guenther, AIA, Architect



BEATRICE TATE SCHOOL, UK

We wanted the floors to brighten and lift the spaces as well as be durable and easy to maintain.

Stratica: Learn Well

An education isn't something that can be built in a day and be expected to last. Nor can the buildings that serve education.

At Beatrice Tate School, a special needs educational establishment in London, the driving philosophy of "pride in our school, pride in our achievements", has been brought to life through the refurbishment of the 1970's building.

The design brief was to create an improved teaching and learning environment, while at the same time reducing life cycle costs and meeting energy conservation targets. It has to withstand the daily traffic of pupils and staff, and at the same time be easy to clean.

"We wanted the floors to brighten and lift the space as well as be durable and easy to maintain. We have successfully achieved an environment that is welcoming, clean and friendly." Jason Segovia-Hodges, MD Hallgate Specialist Services.

"...we wanted something
better for our students,
...light and warm and
healthy air"

Alan Black, Headmaster, Beatrice Tate School



NICI OFFICES, GERMANY

At Nici headquarters, Stratica flooring was chosen to compliment the Feng Shui-inspired office environment.

Stratica: Think Healthy

Workplace design has become a priority issue in the corporate environment. The office is no longer simply a place to work but a tool to improve productivity, promote cultural change, support corporate marketing, and recruit and retain good people.

“We chose Stratica for its durability and because of the choice of colours and finishes, particularly the authentic looking woods and stones.”

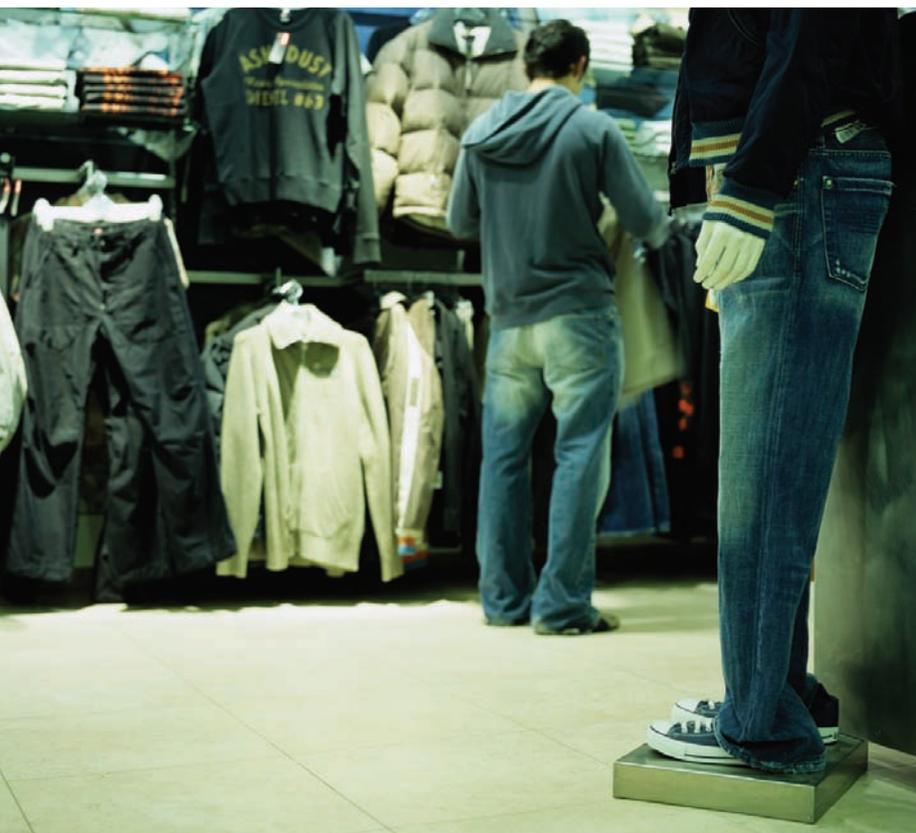
Nenad Lorenian, Director, Crane & Associates.

“The only solution was to work with Stratica which reflects all the quality and character of the real materials, but also allows for the quick installation of a complex floor design within a very tight program timeline”.

David Coventry, Development Director, FKICP

“**Easy** maintenance, high sound absorption, and the sheer **durability** meant that Stratica was the **perfect flooring solution**”

Thomas Drescher, Drescher Architects



Stratica: Tried and Tested

The real test for any product is the way that it performs in use. More than 10,000 Stratica floors have been installed in high traffic environments around the world. From healthcare, education and office environments, to retail stores, restaurants, hotels and airports. These are chosen and operated by environmentally aware architects, designers and property owners from some of the best known companies in the world.

Stratica: Tried and Tested

VOC Emissions

Product	$\mu\text{g}/\text{m}^2/\text{h}$
Stratica	< 10 (below lowest quantifiable FLEC test detection limit)
Carpet	80-600 (depending on product type)
Vinyl	120-2,300 (depending on product grade)
Lino	170

Notes:
Indicates the weight of material emitted per square metre/per hour during test period.

Sources:
California Department of Health Services, Indoor Air 96.

Smoke Emissions

Product	Emissions %
Stratica	2
Carpet	16-320
Vinyl	298
Lino	313

Notes:
DIN 4102 standard test method used. Results indicate the measured % levels of SOD (Smoke Optical Density).

Product Wear Performance

Product	Wear in mm^3
Stratica	1.3
Vinyl	3.2
Rubber	4.2
Marble	7.2
Slate	7.3
Wood	7.8
Lino	9.8

Notes:
Frick Test Method used. Results indicate the volume of material eroded during the test period (100 cycles).

UV Light Stability

Product	UV Light Stability
Stratica	No change
Vinyl	Severe yellowing
Rubber	Severe yellowing
Lino	Shade fading
Carpet	Shade fading

Notes:
Results indicate the effect of 1,500 hours exposure to UV light.

Stratica: Tried and Tested

Stain Resistance

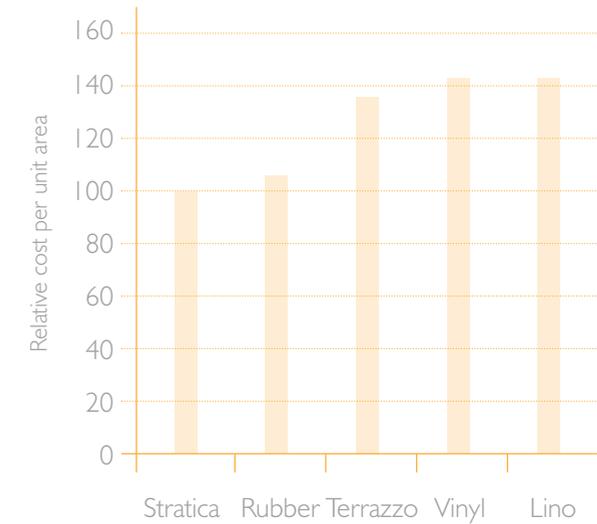
Stratica	0.94
Vinyl	0.71
Rubber	0.71
Lino	0.69
Slate	0.63
Wood	0.55
Marble	0.40

Notes:
Results indicate the resistance to the effect of a range of common staining materials.

A figure of 1.0 indicates complete stain resistance

Comparative Cleaning and Maintenance Costs

High Traffic Locations



Notes:
Based on recommended cleaning and maintenance programs.

Source:
Cleaning Research International.

All Stratica products meet the rigorous slip test requirements of international markets (R9 compliant in Europe).

New Fusion Collection



X-FN30 Mallow Fusion



X-FN93 Coast Fusion



X-FN41 Almond Fusion



X-FN46 Dune Fusion



X-FN31 Oyster Fusion



X-FN89 Sage Fusion



X-FN40 Latte Fusion



X-FN67 Spice Fusion



X-FN34 Marl Fusion



X-FN83 Willow Fusion



X-FN47 Malt Fusion



X-FN44 Mocha Fusion

New Malabar Collection



X-MB94 Malabar Blue



X-MB83 Malabar Green



X-MB40 Malabar Beige



X-MB47 Malabar Tan



X-MB44 Malabar Brown

Product Information

All stones, abstracts and fusion products are available as ceramic finish (with the exception of Egyptian Granite Powder Blue *light dimple finish) and in sizes: 333mm x 333mm (13"x13" approx), 333mm x 500mm (13"x19.5" approx) and 500mm x 500mm (19.5"x19.5" approx).

All products are 2.5mm thick with unbevelled edges as standard. Bevelled edges are also available as an option at no extra cost.

Stones and Abstracts



X-GS14 Honed Limestone



X-LP13 Portuguese Limestone Light



X-LP14 Portuguese Limestone Coffee



X-PM40 Botticino Marble



X-TH40 Quartzite Sandstone Light



X-TH44 Quartzite Sandstone Dark



X-GA40 Tumbled Limestone Brown



X-JA17 Travertine Light Gold



X-DM19 Bianco Marble



X-LS39 Limestone Chiltern



X-JL34 Tamina Grey



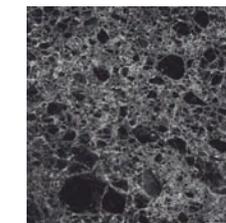
X-EG39 Egyptian Granite Powder Blue*



X-VS57 Travertine Rosso



X-VS99 Travertine Aubergine



X-PM23 Paradiso Charcoal Marble

Custom size

If you cannot find a size to suit your requirements, custom sizes are available on request.

Custom design

If you want something entirely different we may be able to create a new product to your exact specification.

Stripping & Logos

All of the product styles from our woods, stones and abstract ranges can be used for feature stripping (size limitations may apply). With our custom design services we can also create logos to your specifications.

Stripping: Feature Plains

To help you create a truly bespoke design and to add definition and detail to different spaces, the following products are available as unbevelled stripping.

 X-PA117 Vanilla	 X-PA138 Mint
 X-PA447 Buttermilk	 X-PA893 Jade
 X-PA717 Ochre	 X-PA898 Green
 X-PA535 Red	 X-PA139 Lavender
 X-PA334 Ash	 X-PA399 Violet
 X-PA220 Black	 X-PA959 Blue

Minimum width 5mm (1/5"), maximum 25mm (1")

Woods

 X-W524 Light Maple
 X-W551 Classic Maple
 X-W565 Satin Elm
 New X-W554 Pale Oak
 X-W525 Steamed Beech
 X-W521 Alder

 X-W529 Spalted Beech
 X-W523 Craftsman Maple
 X-W545 Quartered Birch
 X-W555 Oak
 X-W515 Cherry
 X-W513 Teak
 X-W514 Red Oak
 X-W511 Antique Rosewood
 X-W528 Wenge Wood

Product Information

All woods are available as tick finish and in sizes: 100mm x 1000mm (4"x39" approx).

All products are 2.5mm thick with unbevelled edges as standard. Bevelled edges are also available as an option at no extra cost.

Custom size

If you cannot find a size to suit your requirements, custom sizes are available on request.

Custom design

If you want something entirely different we may be able to create a new product to your exact specification.

Stripping & Logos

All of the product styles from our woods, stones and abstract ranges can be used for feature stripping (size limitations may apply). With our custom design services we can also create logos to your specifications.

Installation

1. General

The installation of Stratica requires special attention. It is quite different to other resilient flooring and must be installed EXACTLY as instructed, using only Universal 2-Part Adhesive or an Amtico recommended two-part epoxy adhesive. Good preparation is essential for a trouble-free installation. Stratica can be laid on concrete, timber, stone and many other sub-floors, which have been suitably prepared. Site conditions must comply with the relevant national regulations.

Stratica is not suitable for external installation or unheated locations but it can be used with under-floor heating providing it is switched off for 48 hours before and after laying (the maximum permitted surface temperature is 27°C, (81°F)).

Tiles adhesive and sub-floor must be allowed to stabilise to a consistent temperature between 18° – 24°C (64° – 75°F) for a period of 24 hours before and after installation. This will require that pallets are unstacked, and all boxes of tiles opened. Note that tiles must be stored flat.

Following installation, Stratica should be protected from heavy traffic for 24 hours and must not be washed for 48 hours. Always follow other manufacturers' recommendations when using their proprietary materials for sub-floor preparation.

2. Sub-floor Preparation

Careful sub-floor preparation is vital for an excellent floor appearance and good tile adhesion. The sub-floor must be hard, smooth, clean, dry, free from defects and fit for purpose. A suitable water-based levelling compound should be used to ensure that no irregularities show through to the surface of the finished floor. Latex-based levelling compounds should not be used with Stratica.

As a guideline to the performance of the screeding compound used, Amtico recommends that the compressive strength (DIN 1164) of the material should be a minimum of 25 N/mm² (after 28 days of screed application). It is important to identify when the screed material is to be used in a "fast-track" situation, as often the screed's optimum strength will not have been reached within the time that the material is trafficked.

In all cases, the sub-floor must be sufficiently dry and the relative humidity checked to ensure it is not greater than 75% by using a suitable moisture test method. Direct to earth concrete and stone sub-floors must have an effective damp proof membrane. Follow manufacturer's detailed instructions for the installation of a surface DPM and the use of levelling compound.

2.1 New Concrete

Must be allowed sufficient time to dry thoroughly as it will contain a high percentage of residual moisture. Apply levelling compound.

2.2 Old Concrete

Must be cleaned of all paint, grease, wax and any other foreign matter. Apply levelling compound.

2.3 Old Resilient Floors

Existing tiles should be lifted and all adhesive residues completely removed by scraping or using an appropriate mechanical method, such as enclosed shot-blasting. No solvents should be used to remove old adhesive. Apply levelling compound.

N.B. As a safety precaution when lifting vinyl asbestos tiles the appropriate safety measures should be adhered to.

2.4 Terrazzo/Stone

Repair worn or damaged areas. Degrease and apply levelling compound.

2.5 Timber

Must be overlaid with minimum 6mm (1/4") exterior or flooring grade plywood, which must be suitably secured. A suitable feathering compound should be used to smooth out joints.

3. Installation and Adhesives

Only the recommended adhesive should be used – others will not give adequate performance and may fail.

3.1 Recommended Adhesive

Universal 2-Part Adhesive is the recommended adhesive for all Stratica installations, including those subject to some heat and moisture variations as may be found adjacent to sunny windows and shower rooms. Universal is entirely solvent-free and classified as EC1 with respect to very low VOC emissions.

Follow the instructions on the packaging paying particular attention to pot life and working times. Spread adhesive evenly, immediately after mixing, using a trowel with notch size 1.5 x 5.0 mm (UK), a Euro A2 (1.8 x 1.2 x 1.65 mm) or V notch 1/16th" x 1/16th" x 1/16th" (USA). Do not use worn trowels. Tiles can be placed into the adhesive straight away. Only spread sufficient adhesive that can be covered within 40–60 minutes.

Do not spring Stratica tiles into position – tiles requiring hand cutting must not be cut oversize and then sprung (forced) into position. They must be cut so that they fit neatly into position without requiring bending or the application of force.

The Stratica tiles should be rolled with a 45kg (100lbs) roller as soon as possible after laying and before the adhesive cures – timing will depend on site conditions but is generally 1-2 hours after spreading the adhesive. Always clean away excess adhesive before it is allowed to dry – use a soft cloth moistened with methylated spirits or denatured alcohol. Dried adhesive can be removed by carefully scraping it off the tile, or by using a 3M blue pad moistened with methylated spirits or denatured alcohol. Do not use mineral spirits (white spirits, turpentine etc) under any circumstances, as in common with all polyolefin flooring materials this will cause tile swelling and a tendency to curl.

For further information on installation, see www.stratica.com or refer to your Stratica sales person.

Maintenance

General

Floor dressings or polish are unnecessary and should not be used, as most will not adhere. The no-polish properties are a permanent feature of Stratica – unlike some competitors' products that use a coating that may wear off. Stratica has a matte finish that has been deliberately chosen to enhance the realism and beauty of the floor.

Regular cleaning will help preserve the appearance of Stratica. The frequency will depend on the amount and type of traffic and the degree of soiling.

Before commencing work, put out signs to warn that cleaning is in progress.

Routine Cleaning

On a daily basis, pick up litter and sweep the floor to remove debris using a non-impregnated dust mop. Use a vacuum cleaner to clean out any dirt retention mats and wells that may be fitted at the entrance. Spot cleaning can be carried out with a cloth moistened with a diluted neutral detergent. Spills of water, grease, food, chemicals and other foreign materials may cause slipperiness and should be wiped up immediately with an absorbent cloth and then washed thoroughly with a diluted neutral detergent until completely clean. Rinse the area and allow to dry.

No stripping or dressing is ever needed. Stratica maintenance is limited to thorough cleaning using a mop and bucket, a spray cleaner (buffer) or a scrubber-drier depending on the size of area and traffic. Do not flood the floor.

Medium sized locations: In the majority of medium sized installations, many users find that spray cleaning twice weekly is sufficient – resulting in significant cost savings.

Larger, high traffic locations: In these environments scrubber-driers are the normal method of cleaning. This will produce good results with Stratica.

For all methods, a recommended neutral detergent solution should be used. For further information on chemical and machinery selection, please see “The Stratica Guide to Maintenance Products”.

Mop & Bucket

Using the two-bucket mopping system, apply solution sparingly using a suitable mop that has been well wrung to remove excess liquid.

Recharge the mop frequently and change the solution as necessary. Allow to dry thoroughly.

Spray Cleaning (Buffing at approx. 450rpm)

Apply a fine spray of diluted neutral detergent solution onto approximately 2m² (20 ft²) of floor. Use a 3M blue or green nylon pad and work in parallel overlapping passes until the floor is clean and just dry. Do not continue the passes after the floor has dried. Continue to work in 2m² areas.

Scrubber-drier

Use a 3M blue or green nylon pad and neutral detergent solution.

Important Floor Safety Information

Stratica has good non-slip properties when dry but like all hard floors it can become slippery when wet. A slippery floor can cause accidents. This can be caused by poor cleaning, surface contamination or wetness. Any water on the floor must be mopped up at once. In wet weather ensure plenty of entrance matting is used to prevent the trafficking of water. Spills must be wiped up immediately following the routine cleaning guidelines. The use of warning signs is recommended and extra care should be taken to ensure the floor is dry before resuming use.

Be careful with the use of airborne insecticide, disinfectant and perfume sprays. Some contain oil or solvents that may settle on the floor in sufficient quantities to cause slipperiness.

Only use a recommended neutral detergent. Other maintenance products may leave surface residues that detract from the appearance and may be slippery.

Warranty

Stratica is warranted for two years against manufacturing defects, and also carries a 10-year limited warranty against wear out. Full terms and conditions are available on request.

For further information on cleaning, see www.stratica.com or refer to your Stratica sales person.

Technical Data Sheet

Wear Layer

Manufactured from chlorine free Dupont Surlyn®

Underfloor Heating

Suitable

Abrasion Resistance

Taber Test (H22 wheels – 1kg load – 1000 cycles): 0.09g
EN660 (Thickness loss): 0.04mm

Total Thickness

ASTM F1700 (F386): 0.100"
EN428: 2.5mm

Electrical Resistance

DIN 51 953 > 10¹⁰ ohms

Residual Indentation

ASTM F1700 (F1914): <8%
EN433: 0.02mm

Weight

28 lbs (per 45 ft²)
EN430: 3.0 kg/m²

Sound Reduction

ISO 717: + 5 dB

Hardness

Shore D test
approx. 55

Electrostatic Propensity

AATCC Method 134 <2 kV
IISO CD6356 <2 kV (astatic)

VOC Emissions

SP Method 1598
4 weeks: < 10µg/m²/h
26 weeks: < 10µg/m²/h
State of California Section 01350: Pass
Flec Test < 10µg/m²/h

Slip Resistance

ASTM D2047: 0.6
(Dry coefficient of friction)
Compliant with the ADA recommendations
DIN 51130: R9

Chemical Resistance

ASTM F1700 (F925): Excellent
EN423: Excellent

Backing Composition

Mineral filled ethylene copolymer

Thermal Resistance

DIN 52 612: 0.017 m²K/W

Castor Chair Test

EN425: Pass

Wear Layer Thickness

EN429: 0.65mm (0.026")

Light Stability

ASTM F1700 (F1515): Pass
ISO 105 BO2: Pass

Dimensional Stability

ASTM F1700 (Fed Std 501a): Pass
24 hours at 60°C < 0.1%

Mould Growth

BS 5980: Pass

Water Absorption

CP BM2/67-2: Pass

Flexibility

ASTM F1700 (F136): Pass
EN435: Pass

Flammability

ASTM E648: Class I
DIN 4102: B1
NT Fire 007: Class G
ONORM B3800/3810: Q1/B1
Epiradiateur NF P1 92-501: M3
EN 13501-1: Class C^{FL}-S1

Smoke Density and Toxicity

ASTM E662 < 450
MO Resolution MSC 61 (67) Annex 1 Part 2: Pass



Contact Details

Amtico International operates around the world from its service centres in Europe, the USA and Australia. A flexible manufacturing and service network delivers reliability and consistency in a world where deadlines are constantly reducing.

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Disclaimer

Whilst every effort is made to achieve accurate colour reproduction of products in this brochure, printing limitations can be misleading. Selection of colours should be made from actual samples. Samples are small pieces cut from standard tiles. They give only a general indication of colour and do not necessarily show the complete design. Colour and shading can vary slightly from batch to batch, and it is not possible to guarantee that the colour of the sample will exactly match the material supplied.

The policy of the company is one of continuous development and improvement and the right is reserved to add or delete from the range or to change patterns without prior notification.

This brochure is printed on chlorine free paper.

Samples Service
samples@stratica.com

Stratica Online
www.stratica.com

To keep up-to-date with the very latest about Stratica, visit our website. Simply go to www.stratica.com to find everything from details of our newest product launches and design ideas, to advice on installation, cleaning and maintenance.