



BONAR FLOORS

INTRODUCTION

Bonar Floors is the international expert in delivering quality, specialist flooring solutions.

Over 30 years of experience have given us unparalleled expertise in specific sectors as wide-ranging as healthcare, education, transport, hospitality, leisure, offices and retail.

We are built our success on the very highest product standards. We manufacture 2 types of entrance systems (Nuway & Coral) and 2 main flooring products (Flotex & Chocflex). All Bonar Floors products are manufactured to stringent international quality standards, in dedicated sites in the UK, France and the Netherlands.

But we are not just manufacturers, far from it. Through our extensive international network, we provide technical and design advice to ensure a total flooring solution. Partnership is the key to our success. We deliver a personal service, understanding your specific needs so that we deliver practical and attractive floors.

FLOTEX[®]

CHOCFLEX[®]

CORAL[®]

Nuway[®]



BONAR FLOORS

Commitment to the Environment

Bonar Floors is committed to continually improving environmental performance throughout the company. To this end, our environmental objectives are:

- That our manufacturing operations world-wide are managed responsibly, in full compliance with all relevant laws and regulations, and that environmental damage or nuisance does not occur as a result of our activities.
- That conservation programmes for energy and water usage are implemented at all our sites.
- That recycling programmes are implemented where appropriate to maximize the efficient use of raw materials and process wastes.
- That our employees world-wide share the Company's concern for the protection of the environment.



Flotex
Ripley (UK)



Flotex / Chocflex
Chateau Renault
(France)



Coral
Krommenie (Holland)



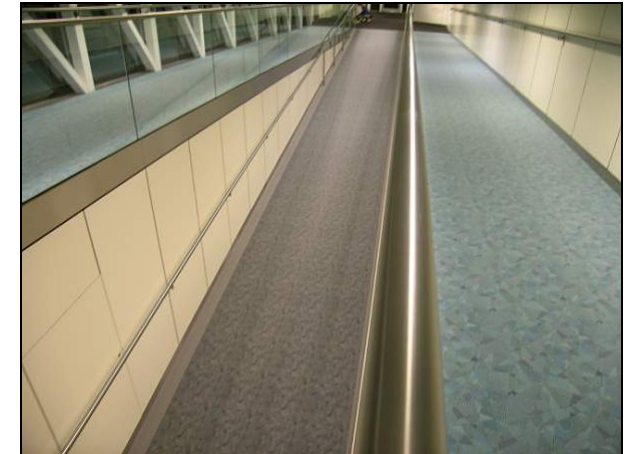
Nuway
Telford (UK)

FLOTEX®

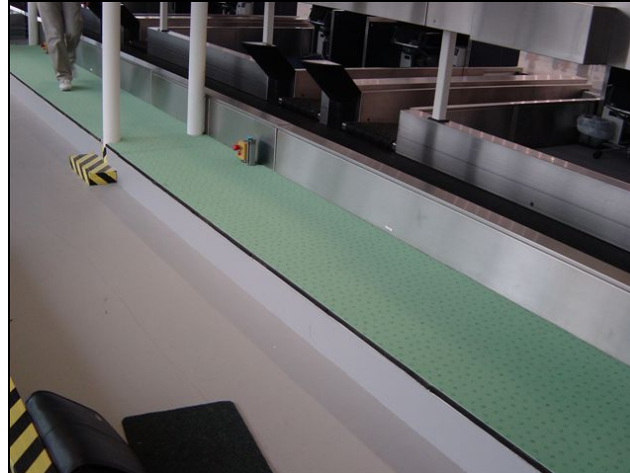
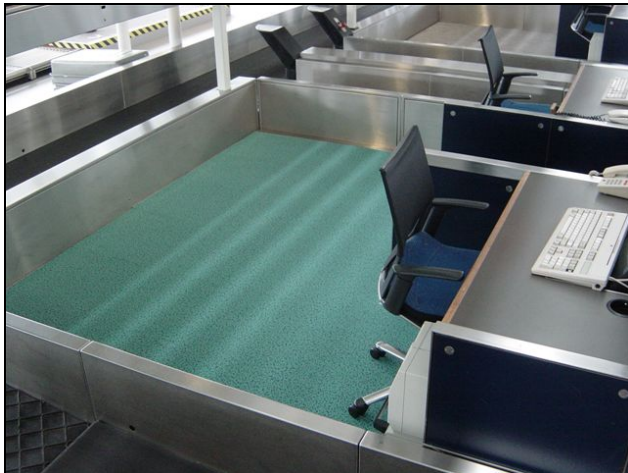
Why Choose **FLOTEX** Instead of Carpet ?

- Completely waterproof - both the fibres and the backing
- No loops or twists to trap dirt
- Does not fray
- Can be cleaned using the same machines used on carpet and vinyl
- Dimensionally stable - does not ruck, shrink or curl
- Easy to install
- Stain resisting - inherent in its product construction
- 10 year wear guarantee

Hong Kong International Airport 2003 - 2004



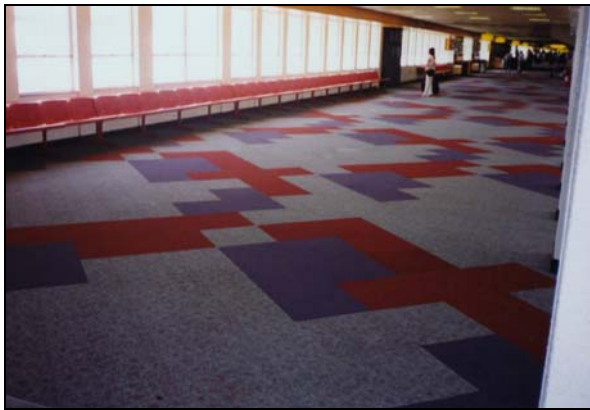
FLOTEX®



FLOTEX®



Former Hong Kong Kai Tak International Airport



FLOTEX®



Fukuka Airport (Japan)



台北松山機場候機室 (Taiwan)



高雄小港機場 (Taiwan)



Nanjing Airport (China)



Beijing Capital Airport (Mock Up)



Kuala Lumpur Airport (Malaysia)

FLOTEX® – Airport Job References

COUNTRIES	AIRPORT NAMES	INSTALLED LOCATIONS	機場名稱	安裝地點
Hong Kong (香港)	✧ Hong Kong Airport	✧ Check In Counters, Control Tower, offices...	✧ 香港國際機場	✧ 登機櫃位, 寫字樓, 控制塔.
	✧ Former Kai Tak International Airport	✧ Aerobridge, arrivals, departures	✧ 前香港啓德機場	✧ 登機橋, 抵港區, 離境區
CHINA (中國)	✧ Beijing Capital International Airport	✧ Duty free shop	✧ 北京首都國際機場	✧ 商場
	✧ Nanjing Airport	✧ Aerobridges	✧ 南京機場	✧ 登機橋
TAIWAN (台灣)	✧ Sung-Shan Airport	✧ Arrival / departure	✧ 松山機場	✧ 抵港區, 離境區
	✧ Chiang Kai Shek Airport, Taipei	✧ Restaurant, departure	✧ 台北中正機場	✧ 酒樓, 離境區
	✧ Kaohsiung International Airport	✧ public areas, walkways, offices (new extension completed)	✧ 高雄國際機場	✧ 候機區行人通道, 寫字樓
SINGAPORE (新加坡)	✧ Changi Airport	✧ Arrival hall, control rooms & main terminal ✧ restaurant, cafeteria transit areas ✧ heavy traffic areas, toy shops	✧ 樟宜機場	✧ 抵港區, 控制台大樓 ✧ 酒樓, 咖啡屋 ✧ 商場, 及人潮往來通道
MALAYSIA (馬來西亞)	✧ Subang Airport	✧ Airbridges	✧ 蘇邦機場	✧ 登機橋
	✧ Johor Bahru Airport	✧ Main concourse, airway bridges	✧ 吉隆坡國際機場	✧ 登機橋, 通道

FLOTEX[®] – Airport Job References

JAPAN (日本)	✧ Fukuoka International Airport		✧ 福岡國際機場	
INDONESIA (印尼)	✧ Jakarta International Airport	✧ JAS First class lounge	✧ 雅加達國際機場	✧ 頭等艙休息室
THAILAND (泰國)	✧ Bangkok International Airport	✧ VIP, Press Conference Centre, Dayroom Area	✧ 曼谷國際機場	✧ 頭等艙休息室
PHILIPPINES (菲律賓)	✧ Ninoy Aquino International Airport ✧ Clark International Airport		✧ 馬尼拉國際機場 ✧ 克拉克國際機場	

FLOTEX® – Airport Job References

UNITED ARAB EMIRATES (阿聯酋)	<ul style="list-style-type: none"> ✧ Emirates Airlines DNATA ✧ Dubai International Airport 		<ul style="list-style-type: none"> ✧ 杜拜國際機場 	
AUSTRALIA (澳洲)	<ul style="list-style-type: none"> ✧ Melbourne International Airport ✧ Perth International Airport 	<ul style="list-style-type: none"> ✧ Aerobridge & loading walkways ✧ Check-in areas 	<ul style="list-style-type: none"> ✧ 墨爾本國際機場 ✧ 帕斯國際機場 	<ul style="list-style-type: none"> ✧ 登機橋，通道 ✧ 登機櫃位
NEW ZEALAND (紐西蘭)	<ul style="list-style-type: none"> ✧ Auckland International Airport 	<ul style="list-style-type: none"> ✧ Aerobridge, observation lounge 	<ul style="list-style-type: none"> ✧ 奧克蘭國際機場 	<ul style="list-style-type: none"> ✧ 登機橋，休息區
BRUNEI (汶萊)	<ul style="list-style-type: none"> ✧ Brunei International Airport 	<ul style="list-style-type: none"> ✧ Control tower, offices ✧ restaurants, arrivals area 	<ul style="list-style-type: none"> ✧ 汶萊國際機場 	<ul style="list-style-type: none"> ✧ 控制塔，寫字樓 ✧ 酒樓，抵港區
FIJI (斐濟)	<ul style="list-style-type: none"> ✧ Nauru International Airport ✧ Nadi International Airport 	<ul style="list-style-type: none"> ✧ Arrival / Departure ✧ Arrival / Departure 		<ul style="list-style-type: none"> ✧ 抵港區/離境區 ✧ 抵港區/離境區

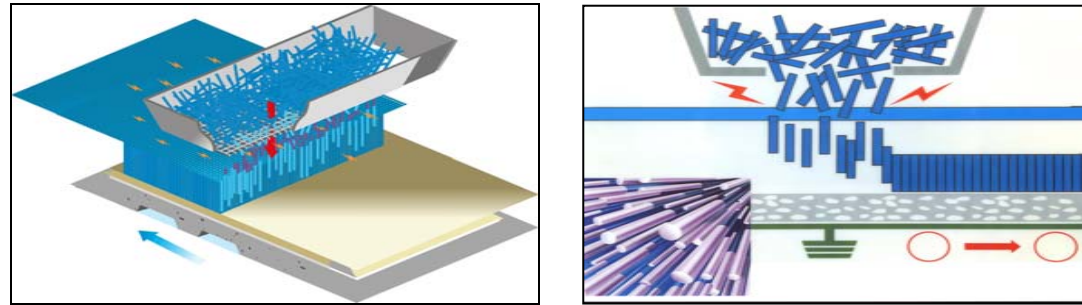
FLOTEX® – Airport Job References

WESTERN SAMOA (西薩摩亞)	✧ International Airport		✧ 國際機場	✧ 抵港區，離境區
FINLAND (芬蘭)	✧ Helsinki International Airport ✧ Vantaa Airport, Helsink ✧ Outu Airport	✧ Air bridges ✧ Aerobridge	✧ 赫爾辛基國際機場	✧ 登機橋
FRANCE (法國)	✧ Aéroport de Roissy II (Paris) ✧ Aéroport de Pointe a Pitre – La Martinique ✧ Aéroport de Nice ✧ Aéroport – Orly Quest (Paris)		✧ 巴黎戴高樂機場 II ✧ 尼斯機場 ✧ 巴黎奧里機場	
UNITED KINGDOM (英國)	✧ East Midlands Airport ✧ Luton Airport ✧ Southend Airport ✧ Birmingham Airport ✧ Belfast Airport	✧ Customs area ✧ Main hall ✧ Main Hall ✧ Restaurant, day free	✧ 盧頓機場 ✧ 伯明翰機場 ✧ 貝爾法斯特機場	✧ 大堂 ✧ 酒樓
USA (美國)	✧ Washington National Airport	✧ concourse	✧ 華盛頓國家機場	✧ 通道

FLOTEX®

The Manufacturing Process

Electrostatic Flocking



Flock preparation

Flotex pile is made from tough Nylon 6.6 fibres. The fibres are cut to 2mm in length and dyed to the required base colour. This dye is fixed into the fibres using a heating and centrifugal spinning process, so that the colour cannot be washed out. The flock is then treated to make it electrically conductive.

Producing the backing

The backing starts with the glass fibre layer. This is coated with the backing material. An adhesive coating is then applied to the top of the glass fibre.

Electrostatic Flocking

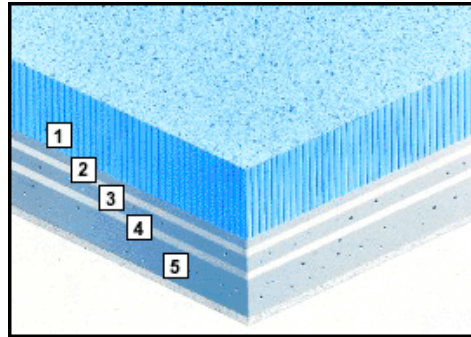
The flock is applied to the backing using a process called electrostatic flocking. The flock receives an electric charge and is fired into the base, which is earthed. On contact with the adhesive the fibres discharge to earth becoming molecularly bonded to the base. They will not delaminate from the base.

Rotary screen printing

The flocked base is then printed with a design using the latest rotary screen printing technology.

FLOTEX®

Tile Construction



1. Nylon 6.6 fibres – approx. 80 million per m²

- Best fibres for high traffic areas due to their durability, resilience and soil resistance
- Smooth, straight, dense fibres of Flotex release the dirt (unlike twisted loops of carpet)
- There are 10 times more fibres per m² than conventional carpet

2. Glass fibre Provides dimensional stability, so the material does not ruck, curl or stretch

3. Intermediate backing Provided extra resilience.

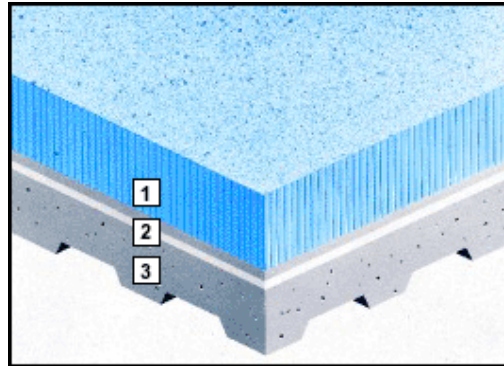
4. Glass fibre Provides extra stability

5. Waterproof backing

- Impervious backing
- No spillages or cleaning solutions can penetrate the backing, and cannot be absorbed into the subfloor
- Flotex dries thoroughly (approx. 4 hours drying time, depending on surrounding conditions).

FLOTEX®

Roll Construction



1. Polyamide nylon 6.6 fibres - 80 million per m²

- Best fibres for high traffic areas due to their durability, resilience and soil resistance
- Smooth, straight, dense fibres of Flotex release the dirt (unlike twisted loops of carpet)
- There are 10 times more fibres per m² than conventional carpe

2. Glass fibre

- Provides dimensional stability, so the material does not ruck, curl or stretch

3. Waterproof backing incorporating polyester viscose layer

- Impervious backing
- No spillages or cleaning solutions can penetrate the backing, and cannot be absorbed into the subfloor
- Flotex dries thoroughly (approx. 4 hours drying time)

FLOTEX®

Features & Benefits



Excellent appearance retention



Good surface friction



Reduces ambient noise



Comfortable underfoot



Easy to install



Simple to repair



Completely waterproof and Stain resisting



No loops or twists to trap dirt



Can be cleaned using same machines as used for carpet and smooth floorcoverings



Dimensionally stable- does not shrink, ruck, curl and fray



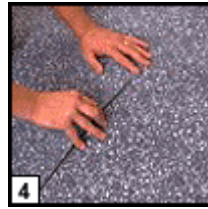
10 year wear guarantee

FLOTEX®

Benefits - Practical

Easy to install

- No fray construction means that edges can be butt joined without cutting or trimming
- No need for welding



Install



Repair

Simple to clean

- Clean regularly with upright vacuum cleaner
- Where thorough wet cleaning is required, machines used to clean carpets and smooth floorcoverings can be used
- Dries quickly after wet cleaning
- No need for extensive amount of cleaning chemicals



FLOTEX[®]

Benefits - Hygienic

Inherently anti-microbial

- Product construction ensures excellent resistance to fungal and bacterial growth

Can be cleaned like vinyl

- Thorough wet cleaning is possible where necessary
- No need for special machines- can use standard machines as used for carpets and vinyl

Easy to remove soil

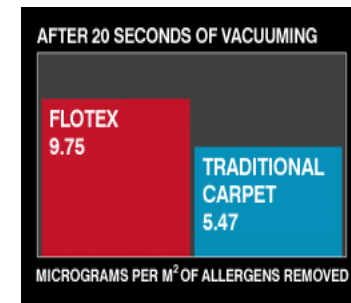
The straight standing fibres release dirt easily, whereas the loops and twists of carpet trap the dirt

Completely waterproof

- Both the fibres and the backing are completely waterproof
- The impervious backing ensures that nothing penetrates to the sub-floor

Stain resisting

- Most spillages can be removed from Flotex without permanent damage



FLOTEX®

Benefits - Durable

Durable product construction

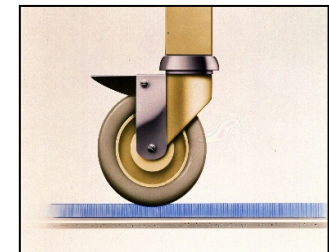
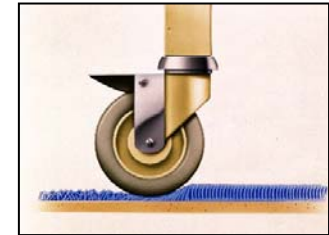
- Waterproof backing protects sub-floor and does not rot
- Fibre glass for dimensional stability
- Approx. 80 million straight standing fibres per square metre (10 times more than conventional carpet)
- Nylon 6.6 fibre used

Excellent appearance retention

- Robust product construction ensures that Flotex looks as good as new for years when properly maintained
- Colourfast

Ideal for heavy traffic areas

- Maximises resistance to crushing from foot and wheel traffic Flame resistant
- 10 year wear guarantee



*No Pile Crush with Flotex
...even with extreme wheel traffic*



FLOTEX®

Benefits - Versatile

Wide product range

- A broad range of designs and colourways
- Roll and tile formats available

Individual Flooring solutions

- Its no fray construction makes Flotex the perfect medium for creating bespoke logos or unique floor designs

Anti-static

- Suitable for use in computer/music/science rooms

Suitability to many different applications

- Flotex is used extensively in healthcare, education, leisure, transport and retail applications worldwide

