

# Car park solutions

Strata advanced floor protection



# Strata advanced floor protection

The Strata floor coating range provides ultimate protection for concrete floors.

Offering best-in-class abrasion resistance and mechanical strength, it has been developed to reduce the need for cyclical maintenance whilst offering high standards in sustainability.

Engineered for resilience, Strata coatings are ideal for car parks, traffic decks, racetracks and asphalt markings that are subject to heavy vehicular traffic.



**We understand the many demands of coatings specification for car parks. Our Strata products have been designed to combine in tailor-made systems to meet these diverse requirements. For new build or to successfully tackle problems associated with refurbishment, Strata is tougher than concrete to give your car park lasting good looks, with reduced maintenance, for cost effective results.**

## Performance

To combat the porous concrete surfaces, our sealers and primers offer the perfect base for hard wearing, long-lasting protection. Our topcoats complete the seamless, flexible floor, with a high gloss shine. Easy to clean, abrasion and chemical resistant.

## Safety

The safety and comfort of commuters and employees in your car park is of paramount importance. Strata coatings are available to resist slippage, temperature and high impact.



## Sustainability

To meet your local environmental responsibilities, we offer Strata products that are solvent free and LEED compliant in VOC, giving you a green alternative, no matter what colour you choose.

## Colour

Whether you want colour for zoning, way-finding or for aesthetics, we offer a wide range of tinted colours that meet international and local colour legislation. Not only does Strata give you an attractive, practical floor surface, but offers you the flexibility to create a single floor using multiple colours. With special colours available to order, the possibilities are endless.

## Support

To make sure you get the right solutions for your car park, our dedicated technical service teams are on hand. Offering specification and colour support on and off site. Application is easy, but if you need support, our certified applicator programme is available to help your applicators deliver the perfect finish.



# High performance systems

## For heavy traffic

Our heavy traffic systems are designed to protect floors subject to long term loads from nonstop vehicular traffic. Designed to provide ultimate performance.

### Strata systems for ultimate performance

- Total solvent free system.
- High abrasion resistance.
- High mechanical properties.
- No odour during and after application.
- LEED compliant VOC.



## Coating system

### General requirements

High abrasion and impact resistant.

### Areas of use

Car parks with heavy traffic.

#### Strata system

Primer	1x Strata Primer SF
Base coat	1x Strata Epoxy HT
Topcoat	1x Strata Epoxy HT
Total system DFT: 400 – 500 microns	

## Seamless system

### General requirements

High abrasion and impact resistant.

### Areas of use

Car parks with heavy traffic.

#### Strata system

Primer	1x Strata Primer SF
Base coat	1x Strata Epoxy SL2000
Total system DFT: 1100 – 2100 microns	

# Strata car park systems



## Strata system for moderate traffic

- High-solid system.
- Good abrasion resistance.
- High impact resistance.

### General requirements

Good abrasion and impact resistant. Standard system.

### Areas of use

Car parks with moderate traffic and indoor pedestrian areas.

### Strata system

Primer	1x Strata Sealer
Base coat	1x Strata Epoxy MT
Topcoat	1x Strata Epoxy MT
Total system DFT: 200 – 250 microns	



## Strata system for ramps and turning circles

- Total solvent-free system.
- Non-skid finish.
- High abrasion resistance.
- High mechanical properties.
- No odour during and after application.
- LEED compliant VOC.

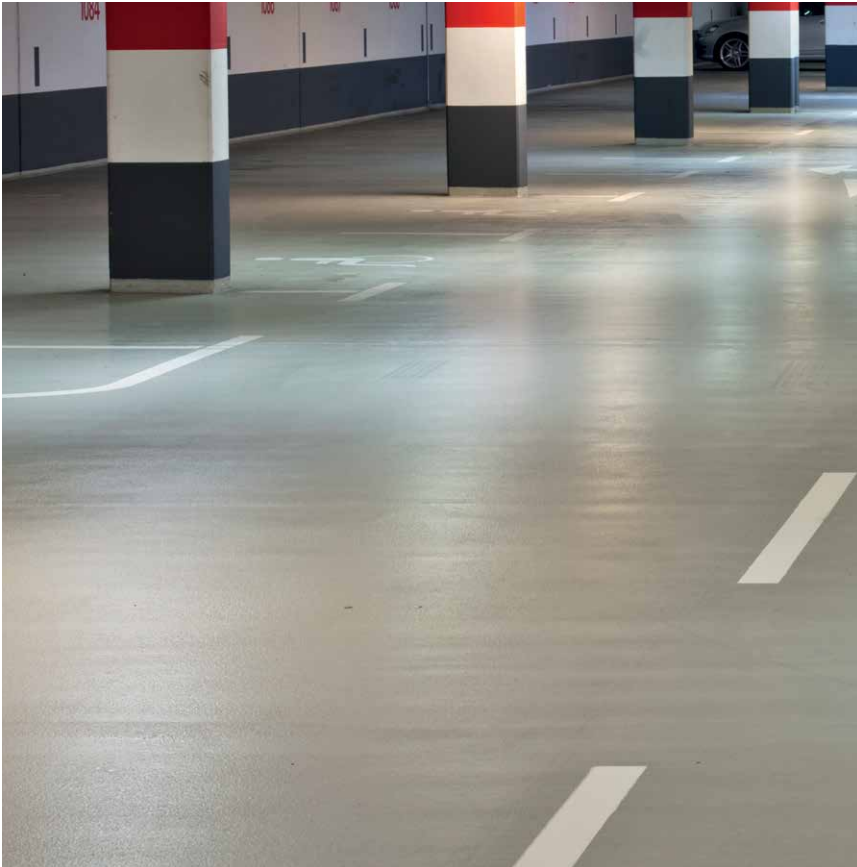
### General requirements

Anti-slip surface. High abrasion and impact resistant.

### Areas of use

Car parks ramps and turning circles.

Strata system	
Primer	1x Strata Primer SF
Base coat	1x Strata Epoxy HT
Broadcast	1x Strata Anti-Slnt 500 or 900
Topcoat	1x Strata Epoxy HT
Total system DFT: 400 – 500 microns	



## Solutions for damp concrete

- High-solid system.
- Good abrasion resistance.
- High impact resistance.
- LEED compliant VOC.

### General requirements

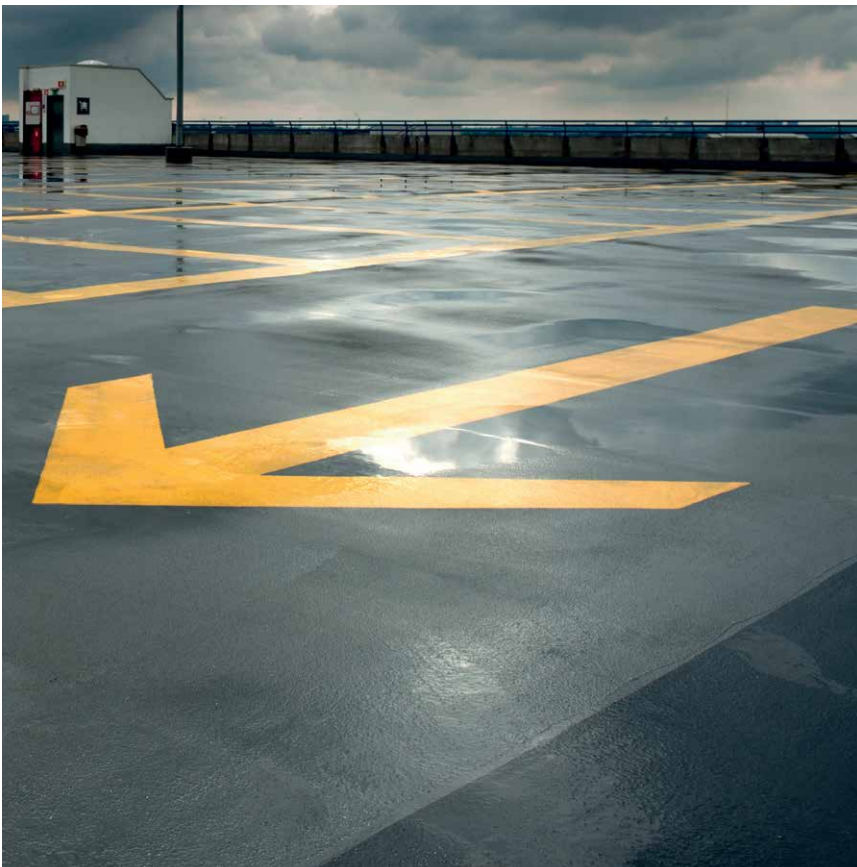
Permeable to water vapour (breathable system).

### Areas of use

Car parks with light traffic. Indoor pedestrian areas.

#### Strata system

Primer	1x Strata Epoxy WB thinned with 15-25% water
Base coat	1x Strata Epoxy WB
Topcoat	1x Strata Epoxy WB
Total system DFT: 150 – 200 microns	



## Solutions for top decks and exposed areas

- High abrasion and chemical resistance.
- High impact resistance.
- UV resistance and colour retention.

### General requirements

UV resistant. Colour retention.

### Areas of use

Areas exposed to UV light.

#### Strata system

Primer	1x Strata Sealer
Base coat	1x Strata Epoxy HT
Topcoat	1x Strata PU Top
Total system DFT: 250 - 400 microns	



## Solutions for marking and skirting

- High abrasion and chemical resistance.
- High impact resistance.

### General requirements

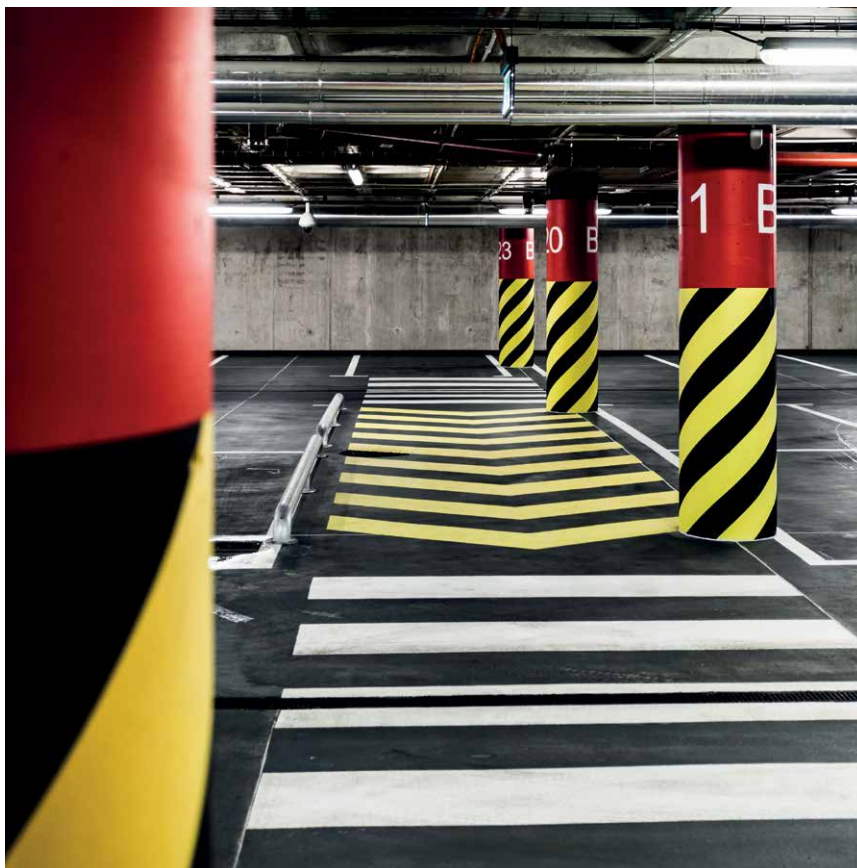
Availability in different colours. Abrasion resistant. UV-resistant if used outdoors.

### Areas of use

Markings for indoor and outdoor car parking areas.

#### Strata system

Interior	1x Strata Epoxy MT or Strata Epoxy HT
Exterior	1x Strata PU Top



## Solutions for stairways

- Gloss, high-solid system.
- Good abrasion resistance.
- Provide a non slip system.

### General requirements

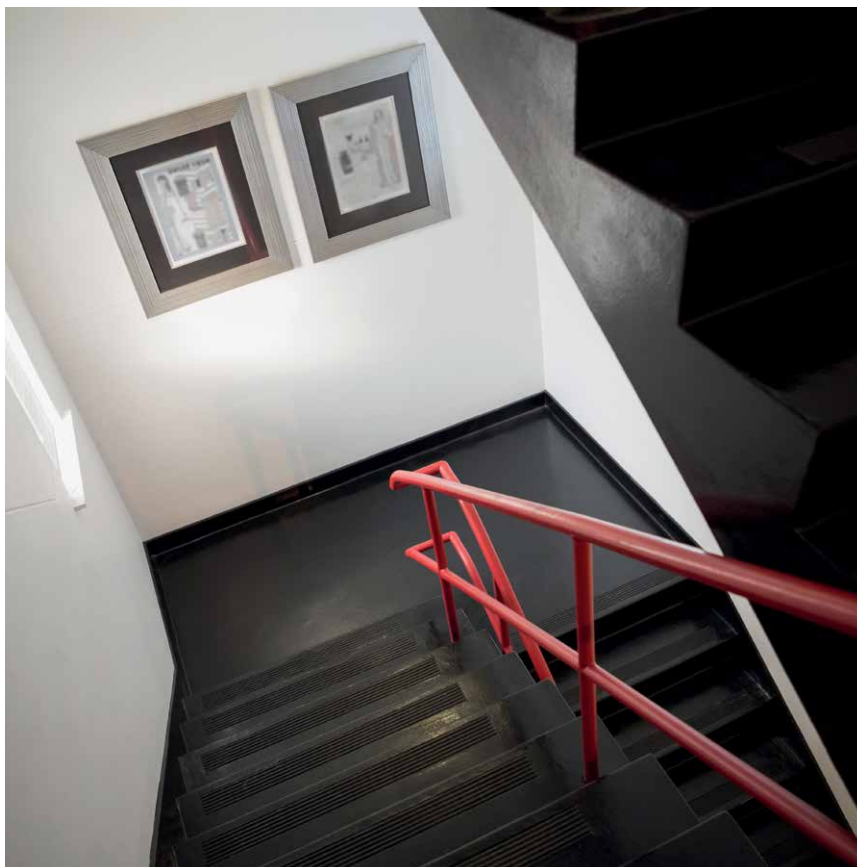
Floors with pedestrian traffic. Walls with high requirement for a robust surface, easy cleaning with low maintenance. Aesthetically pleasing.

### Areas of use

Escape stairways.

#### Strata system

Primer	1x Strata Sealer
Base coat	1x Strata Epoxy MT
Broadcast	1x Strata Anti-Slnt 500
Topcoat	1x Strata Epoxy MT
Total system DFT: 250 – 300 microns	



# Preparing for the best results

**All flooring systems, including Strata, require adequate surface preparation before application. Even Strata products cannot compensate for poor surface preparation.**

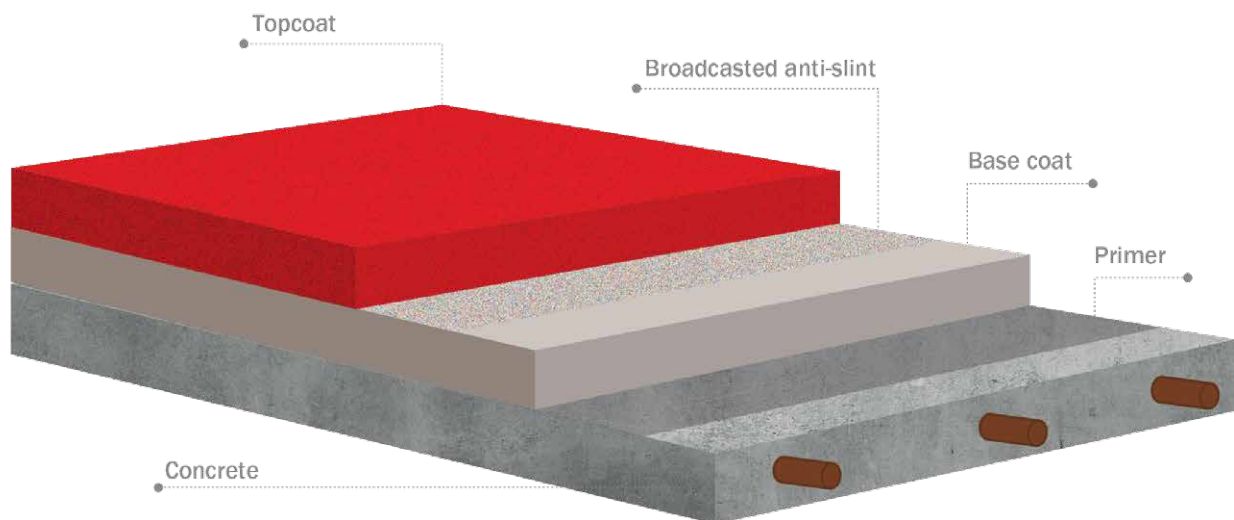
Strata has been designed to comply with the most demanding requirements, especially when it comes to durability, mechanical properties and chemical resistance. However, Strata's ultimate performance depends to a great extent on the correct conditioning of the surface to be treated.

Proper surface preparation includes the following:

1. Inspection of the concrete substrate to determine its general condition and best methods to use in preparation of the surface to obtain the desired concrete surface profile.
2. Removal and replacement of non-durable concrete.
3. Decontamination of the concrete surface.
4. Creation of surface profile CSP 2 – CSP 3 with either grinding machine or shotblasting.
5. Repair of surface irregularities with Strata Epoxy Floor Filler, Strata Epoxy Wall Filler and Strata Screed.

For further information refer to Strata surface preparation guide.

The total system build-up and its individual components should always have a minimum thickness specified and measured, in order to perform in accordance with our Product Data Sheets and their independent certificates.



# Certificates

You can be assured of best-in-class performance with Strata. Its advanced performance and reliability are proven and certified by independent laboratories.

Property	Standard
Adhesion strength	ASTM D4541-09
Tensile strength	ASTM C307-03
Flexural strength	ASTM C580-02
Compressive strength	ASTM C579-01
Abrasion resistance	ASTM D4060-10
Impact resistance	ASTM D2794
Shore D hardness	ASTM D2240-05
Shore A hardness	ASTM D2240-05
Elongation	ASTM D 412-06a
Water absorption	ASTM D570-98
Water vapour permeability	ASTM E96/E98M-05
Chemical resistance	ASTM D1308
Substrate burning characteristics	ASTM E84
Critical radiant flux	ASTM E 648

For further information refer to the individual Product Data Sheets.

# The role of colour

At Hempel, we understand that colour is not only functional, but is used to enrich the environment, whether inside or out. Colour is a powerful tool and plays an important role, giving your car park an identity, differentiating it from other parking venues and making it the preferred stop for your customers.

Internationally recognised colours for specific areas are available as standard.



Disabled parking zones



Pedestrian access

Create additional parking zones with our extended colour range.



**Colours in car parks serve as way finders, denote important zones for pedestrians and vehicles, and mark exits and stairwells.**

Our Strata colour range not only includes the colours you would expect for this standard zoning, but offers an expanded colour choice in a variety of finishes for greater design flexibility. We can even match Strata to your corporate logo, colour scheme or samples.

**Zoning with the Strata colour range.**

- Maximises the use of your floor space.
- Easy for users to navigate.
- Safety for pedestrians and vehicles.
- Helping your car park to become the parking venue of choice.

# Strata product portfolio

Strata products are ideal for many demanding applications, offering total solutions. There is a wide range of trusted Strata products available that includes:



Strata product name	Product type	Intended use
Strata Sealer	Solvent-borne epoxy	Seal and saturate porous concrete
Strata Primer	Solvent-free epoxy	Primer for all porous concrete surfaces
Strata Epoxy Floor Filler	Solvent-free epoxy	Fill imperfection irregularities in concrete floors
Strata Epoxy Wall Filler	Solvent-free epoxy	Fill imperfection irregularities in concrete and plaster walls
Strata Screed S	Solvent-free epoxy	Refurbishment of concrete floors
Strata Screed R	Solvent-free epoxy	Refurbishment of concrete floors
Strata Anti-Slint 900	Dried silica sand 900 micron	Coarse anti-slint aggregate
Strata Anti-Slint 500	Dried silica sand 500 micron	Fine anti-slint aggregate
Strata Epoxy LT	Solvent-borne epoxy	Concrete floors and walls in residential and public areas exposed to light traffic
Strata Epoxy MT	Solvent-borne epoxy	Concrete floors in exposed to moderate traffic
Strata Epoxy HT	Solvent-free epoxy	Concrete floors exposed to heavy traffic
Strata Anti-Microbial Epoxy HT	Solvent-free epoxy	Concrete floors and walls in areas with strict hygienic requirements
Strata Epoxy WB	Waterborne epoxy	Concrete floors exposed to light traffic. Damp concrete floors. Walls in hospitals and schools
Strata PU Top	Solvent-borne polyurethane	Interior and exterior floors exposed to UV
Strata Epoxy SL2000	Solvent-free epoxy	Seamless concrete floors exposed to heavy traffic
Strata Epoxy SL5000	Solvent-free epoxy	Seamless concrete floors exposed to heavy traffic
Strata WB Airfield & Roadmarking	Waterborne acrylic	Roadmarking on bituminous/asphalt or corresponding substrates
Strata SB Airfield & Roadmarking	Solvent-borne styrenated alkyd	Roadmarking on bituminous/asphalt or corresponding substrates
Strata Sportsground Marking	Waterborne styrene acrylic	Marking on concrete sports and playgrounds

Search for Strata on YouTube to view our useful application videos.

- Strata Screed S.
- Strata Epoxy HT.
- Strata Epoxy SL.
- Strata Anti-Slint.

\* Can vary to surface and application conditions

Gloss finish	Pot-life (20°C)	Recommended DFT	Theoretical spreading rate per coat*	Application tools
Glossy	8 hours	1x 40 microns	7.3 m <sup>2</sup> /litre	
Glossy	45 minutes	1x 100 microns	10.0 m <sup>2</sup> /litre	
Matt	1 hour	Max. 5mm	2.0 kg/m <sup>2</sup>	
Matt	1 hour	Max. 5mm	1.7 kg/m <sup>2</sup>	
Semi-gloss, rough	70 minutes	1x 5 - 15mm	11 kg/m <sup>2</sup>	
Semi-gloss, rough	70 minutes	1x 5 - 15mm	11 kg/m <sup>2</sup>	
			250-500 g/m <sup>2</sup>	
			250-500 g/m <sup>2</sup>	
Glossy	6 hours	2x 60 microns	9.0 m <sup>2</sup> /litre	
Glossy	70 minutes	2x 100 microns	8.0 m <sup>2</sup> /litre	
High gloss	50 minutes	2x 150 microns 2x 300 microns	6.6 m <sup>2</sup> /litre 4.0 m <sup>2</sup> /litre	
High gloss	50 minutes	2x 150 microns	6.5 m <sup>2</sup> /litre	
Semi-gloss	1 hour	2x 80 microns	6.6 m <sup>2</sup> /litre	
Glossy	3 hours	2x 75 microns	6.8 m <sup>2</sup> /litre	
High gloss	50 minutes	1x 1000 - 2000 microns	3.1 kg/m <sup>2</sup>	
High gloss	50 minutes	1x 1000 - 2000 microns	8.5 kg/m <sup>2</sup>	
Matt		1x 150 microns	4.0 m <sup>2</sup> /litre	
Matt		1x 150 microns	2.5 m <sup>2</sup> /litre	
Matt		1x 60 microns	6.0 m <sup>2</sup> /litre	

# Strata

Ultimate protection for floors

Since 1915 Hempel has been a world-leading coatings specialist, providing protection and inspiration to the world around us. Today we have over 5,500 people in 80 countries delivering trusted solutions in the protective, decorative, marine, container, industrial and yacht markets. This includes many recognised brands like Crown Paints, Schaeppman and Jones-Blair.

Hempel is proudly owned by the Hempel Foundation, which supports cultural, humanitarian and scientific causes across the world.

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