

//// TERRACO



Flexipave[®]

SPORTS FLOORING SYSTEMS



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TENNIS COURT SYSTEMS

Terraco has been developing and producing finishing materials for the construction industry for more than 35 years. Forming part of our extensive product range is Flexipave Sports Flooring Systems, used for coating tennis courts and other recreational surfaces, such as basketball courts, volleyball courts, golf course buggy paths, walking paths and other demanding applications.

Terraco Flexipave® Tennis Court Systems offer the best solutions for sports surfaces, guaranteeing an excellent playing standard, safety and a long lasting surface. Flexipave is fade resistant, waterproof and highly durable, offering protection to the underlying surface from weather and climatic conditions. Tennis courts which use a Flexipave system are uniform and, with excellent technical performances, they offer:

- Better ball control and playing comfort
- Perfect ball bounce
- Excellent balance between friction and sliding
- Superior shock absorbing properties



There is a wide choice of surfaces available for building tennis courts and each will provide slightly different game characteristics. The most common playing surfaces for tennis courts are synthetic turf, hard courts, coated hard courts, clay, and polymeric. There are also very specialist surfaces such as rubber-coated asphalt, used at the US Open, and acrylic-coated latex, used at the Australian Open.

Terraco's Flexipave Tennis Court Systems are designed to cater for the needs of the amateur, intermediate and professional player by providing tennis court surfaces of differing pace, i.e. the speed by which the tennis ball rebounds off the surface of the tennis court. For example, for the professional tennis player at the Australian Open Grand Slam, Medium-fast tennis court systems are required by the International Tennis Federation (ITF) to be installed in the arenas throughout this tennis complex.

Flexipave Tennis Court Systems are used for coating hard courts of asphalt or concrete. Asphalt is constructed as a two layer system: the base course and the wearing course. The wearing course is the upper-most layer which then receives the Flexipave Tennis Court System based on the required court pace, either Medium-slow, Medium or Medium-fast. These tennis court systems have a very good lifespan, are easy to maintain, and are relatively economical compared to more specialist surfaces.

Complying with international standards, Terraco's technically advanced Flexipave Tennis Court Systems are ITF Certified.

The Flexipave Tennis Court Systems offer environmentally sustainable solutions because the systems incorporate the use of recycled materials. They are easy to apply, extremely durable, require minimal maintenance and are resistant to wear and weather.

Flexipave - for a perfect bounce every time!



CLASSIFIED COURT PACE

2
MEDIUM-SLOW

Terraco Flexipave Medium Slow
as supplied by
Terraco Technical Centre Ltd

has been classified as
CATEGORY 2 - Medium-slow
Expiry Date : 2 February 2024



Jamie Capel-Davies
Head, Science & Technical

This Classification was established using the product composition described in test report no. 01/02-21-L-CST-883-C

Note: ITF classification does not imply any form of ITF approval or endorsement



CLASSIFIED COURT PACE

3
MEDIUM

Terraco Flexipave Medium
as supplied by
Terraco Technical Centre Ltd

has been classified as
CATEGORY 3 - Medium
Expiry Date : 2 February 2024



Jamie Capel-Davies
Head, Science & Technical

This Classification was established using the product composition described in test report no. 01/02-21-L-CST-884-A

Note: ITF classification does not imply any form of ITF approval or endorsement



CLASSIFIED COURT PACE

4
MEDIUM-FAST

Terraco Flexipave Medium Fast
as supplied by
Terraco Technical Centre Ltd

has been classified as
CATEGORY 4 - Medium-fast
Expiry Date : 2 February 2024



Jamie Capel-Davies
Head, Science & Technical

This Classification was established using the product composition described in test report no. 01/02-21-L-CST-885-C

Note: ITF classification does not imply any form of ITF approval or endorsement

Flexipave[®] SYSTEM DETAILS - Surface Preparation

Surface preparation is an extremely important element for all Flexipave Tennis Court Systems. Asphalt or concrete substrates must be surveyed for levelness prior to application. Any substrate surface defects, depressions or cracks must be repaired flush and smooth with adjacent substrate prior to application of the Flexipave Tennis Court System.

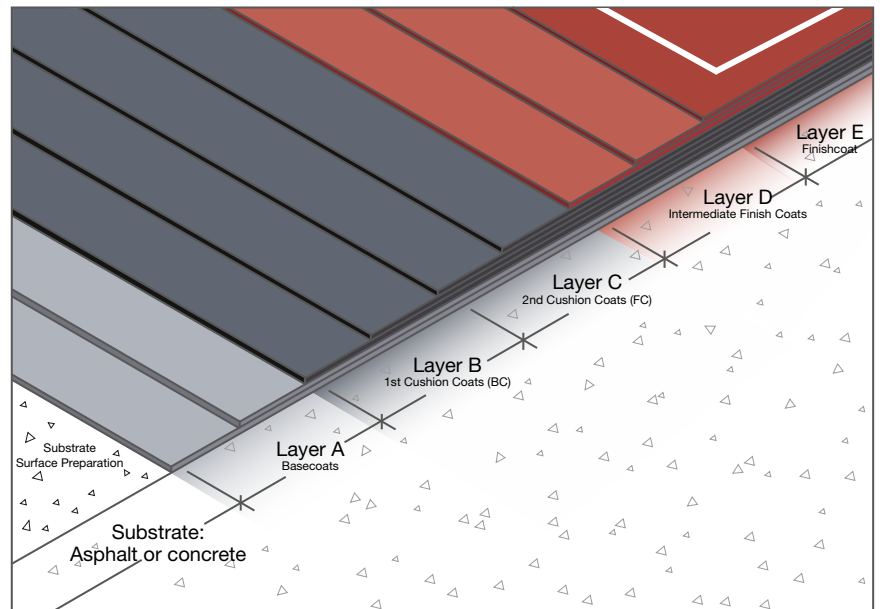
Substrate Preparation	Asphalt		Concrete	
	New	Old	New	Old
Ensure new substrate is cured for a minimum of 28 days	YES	N/A	YES	N/A
Ensure all Laitance on new concrete surface is removed	N/A	N/A	YES	N/A
Ensure all substrate surface is free of dust, dirt and foreign particles following any repair work and before progressing.	YES	YES	YES	YES
Substrate Priming (when required)	New	Old	New	Old
Apply minimum 1 coat of Flexipave Concrete Primer A 2 nd or 3 rd coat maybe required dependent on substrate conditions	NO	NO	YES	NO

FLEXIPAVE SYSTEM LAYERS

The following table indicates the possible layers in a Flexipave Tennis Court System. A, B, C, D, E for the number of coats for each layer refer to ITF Category Medium Slow, Medium, and Medium Fast.

NUMBER OF COATS				
ITF Classification		ITF 2	ITF 3	ITF 4
Layer A	Basecoats	2	2	2
Layer B	1st Cushion Coats (BC)	3	2	-
Layer C	2nd Cushion Coats (FC)	3	2	-
Layer D	Intermediate Finish Coats	2	2	2
Layer E	Finishcoat	1	1	1
Total		11	9	5

Note: The layers exclude the substrate surface preparation which is to be carried out prior to the Flexipave System.



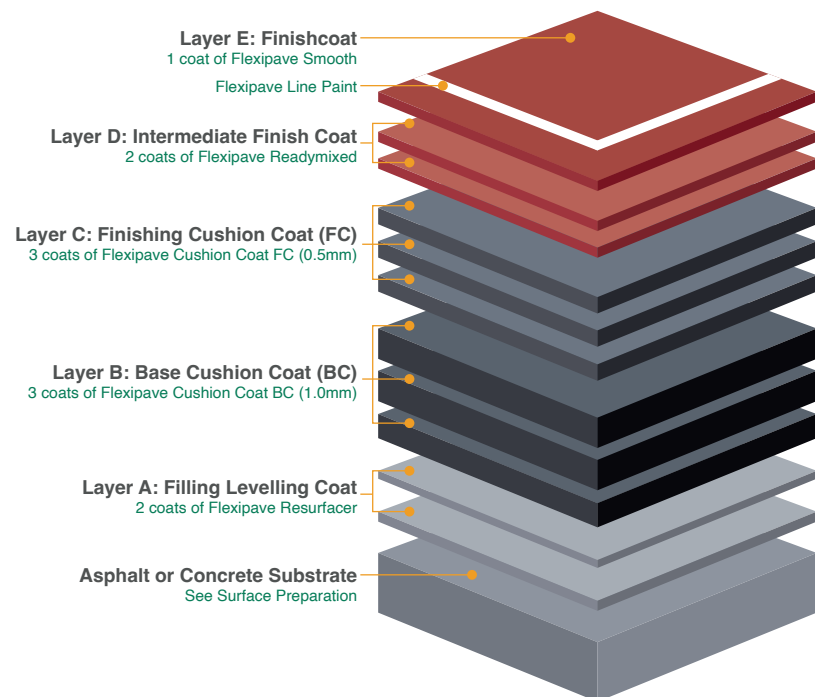
FLEXIPAVE REQUIRED MIXING RATIOS WITH SILICA SAND & WATER

In calculating the Flexipave materials required for each project, and prior to the application of each coat, each coat of Flexipave product must be mixed as specified below in the stated ratio with Potable Water and Terraco Aggregate No. 4 Silica Sand (0.1-0.3mm).

BUILD UP OF FLEXIPAVE LAYERS		FLEXIPAVE PRODUCTS		Silica Sand (0.1-0.3mm)	+	Water (Potable)
LAYER A	Basecoats	Flexipave Resurfacer		Flexipave Aggregate No. 4		Water
	MIX RATIO: Per Coat	100 Parts	+	60 Parts	+	40 Parts
LAYER B	1st Cushion Coats (BC) (1.0mm)	Flexipave Cushion Coat BC 1.0mm				Water
	MIX RATIO: Per Coat	100 Parts		+		30 Parts
LAYER C	2nd Cushion Coats (FC) (0.5mm)	Flexipave Cushion Coat FC 0.5mm				Water
	MIX RATIO: Per Coat	100 Parts		+		30 Parts
LAYER D	Intermediate Coats	Flexipave Readymixed				Water
	MIX RATIO: Per Coat	100 Parts	+	+	+	20 Parts
LAYER E	Finishcoat	Flexipave Smooth				Water
	MIX RATIO: Per Coat	100 Parts		+		15 Parts



This system is for medium-slow professional paced courts, certified ITF Pace 2. The system is composed of a combination of additional cushioning synthetic substrates to regulate the court's pace, intermediate finishcoats, overcoated with a highly resistant coloured acrylic finish coat. It is easy to apply. It ensures perfect ball bounce, excellent balance between friction and sliding, and provides player comfort. It is suitable for both inside and outside tennis courts.



Flexipave Medium Slow (ITF 2)		
		Number of coats
A	Flexipave Resurfacer + Aggregate No. 4	2
B	Flexipave Cushion Coat Basecoat	3
C	Flexipave Cushion Coat Finishcoat	3
D	Flexipave Readymixed	2
E	Flexipave Smooth	1
Total number of coats		11

Specific surface for:

- Tennis Courts
- Padel Tennis

Suitable also for:

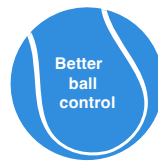
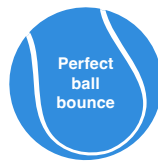
- Volleyball
- Badminton
- Handball
- Basketball
- Recreational running paths



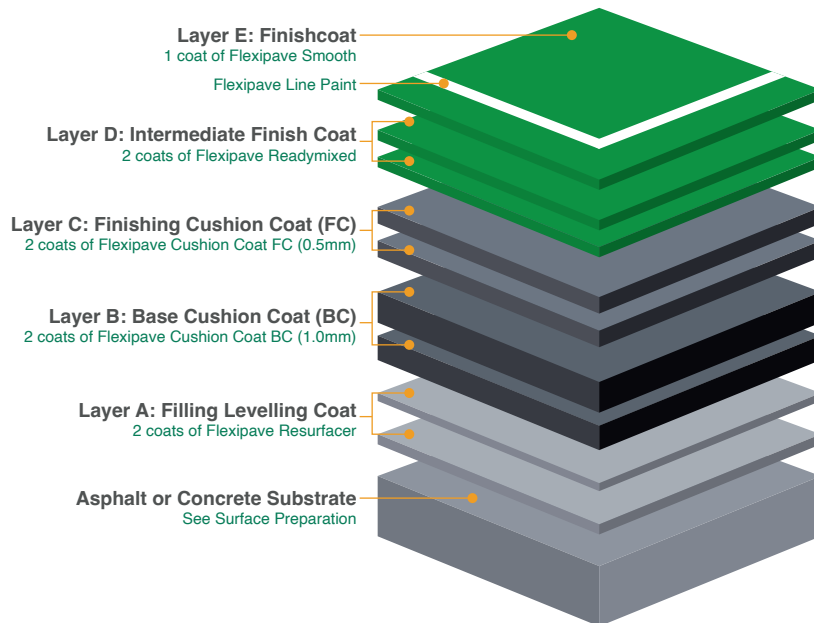
TERRACO FLEXIPAVE MEDIUM SLOW PACE 2 - TENNIS COURT (11 Coats)					
(Surface Preparation is excluded - site specific)					
Layers		Product Description	Number of Coats	Consumption/ sqm/coat	Total Consumption
A	Filling Levelling Coat	Flexipave Resurfacer	2	0.33 kg/m ² /coat	0.66 kg/m ²
	Mixing Ratio	60% Aggregate No: 4 + 40% Water			
B	Base Cushion Coat (BC)	Flexipave Cushioncoat BC (1 mm)	3	0.64 kg/m ² /coat	1.92 kg/m ²
	Mixing Ratio	30% Water			
C	Finishing Cushion Coat (FC)	Flexipave Cushioncoat FC (0.5 mm)	3	0.50 kg/m ² /coat	1.50 kg/m ²
	Mixing Ratio	30% Water			
D	Intermediate Finish Coat	Flexipave Readymixed	2	0.60 kg/m ² /coat	1.20 kg/m ²
	Mixing Ratio	20% Water			
E	Finish Coat	Flexipave Smooth	1	0.30 kg/m ² /coat	0.30 kg/m ²
	Mixing Ratio	15% Water			

*The material consumption data are based on standard application condition. It may vary (± 5%) depending on site condition & application technique.

Flexipave[®] SYSTEM DETAILS - Medium



This system is for medium professional paced courts, certified ITF Pace 3. The system is composed of a combination of cushioning synthetic substrates, intermediate finishcoats, with a highly resistant coloured acrylic top coat. It is easy to apply. It ensures perfect ball bounce, better ball control and playing comfort, and excellent wear resistance. It is suitable for both inside and outside tennis courts.



Flexipave Medium (ITF 3)		
		Number of coats
A	Flexipave Resurfacer + Aggregate No. 4	2
B	Flexipave Cushion Coat Basecoat	2
C	Flexipave Cushion Coat Finishcoat	2
D	Flexipave Readymixed	2
E	Flexipave Smooth	1
Total number of coats		9

Specific surface for:

- Tennis Courts
- Padel Tennis

Suitable also for:

- Volleyball
- Badminton
- Handball
- Basketball
- Recreational running paths

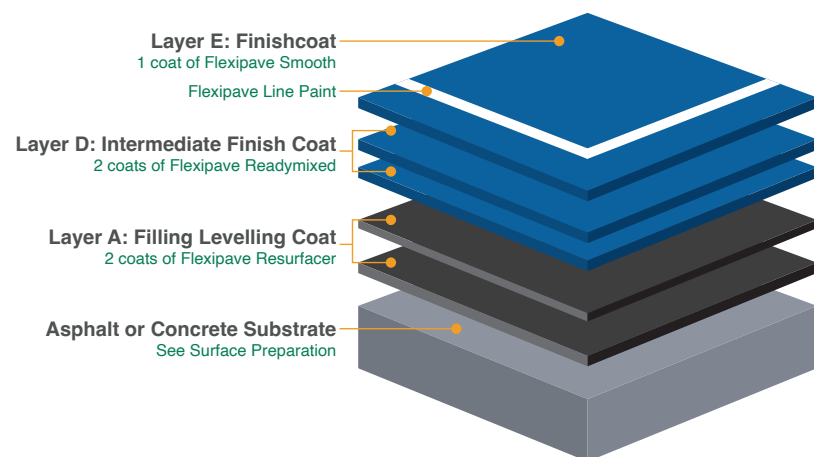


TERRACO FLEXIPAVE MEDIUM PACE 3 - TENNIS COURT (9 Coats)					
(Surface Preparation is excluded - site specific)					
Layers		Product Description	Number of Coats	Consumption/ sqm/coat	Total Consumption
A	Filling Levelling Coat	Flexipave Resurfacer	2	0.33 kg/m ² /coat	0.66 kg/m ²
	Mixing Ratio	60% Aggregate No: 4 + 40% Water			
B	Base Cushion Coat (BC)	Flexipave Cushioncoat BC (1 mm)	2	0.64 kg/m ² /coat	1.28 kg/m ²
	Mixing Ratio	30% Water			
C	Finishing Cushion Coat (FC)	Flexipave Cushioncoat FC (0.5 mm)	2	0.50 kg/m ² /coat	1.00 kg/m ²
	Mixing Ratio	30% Water			
D	Intermediate Finish Coat	Flexipave Readymixed	2	0.60 kg/m ² /coat	1.20 kg/m ²
	Mixing Ratio	20% Water			
E	Finish Coat	Flexipave Smooth	1	0.30 kg/m ² /coat	0.30 kg/m ²
	Mixing Ratio	15% Water			

*The material consumption data are based on standard application condition. It may vary (± 5%) depending on site condition & application technique.



This system is for medium-fast professional paced courts, certified ITF Pace 4. It is comprised of a combination of intermediate finish coats with a highly resistant coloured acrylic finishcoat on top. It is easy to apply. It ensures high playing comfort and does not need maintenance. It is suitable for both inside and outside tennis courts.



Flexipave Medium Fast (ITF 4)		
		Number of coats
A	Flexipave Resurfacer + Aggregate No. 4	2
B	Flexipave Cushion Coat Basecoat	-
C	Flexipave Cushion Coat Finishcoat	-
D	Flexipave Readymixed	2
E	Flexipave Smooth	1
Total number of coats		5



Specific surface for:

- Tennis Courts
- Padel Tennis

Suitable also for:

- Volleyball
- Badminton
- Handball
- Basketball
- Recreational running paths



TERRACO FLEXIPAVE MEDIUM FAST PACE 4 - TENNIS COURT (5 Coats)					
(Surface Preparation is excluded - site specific)					
Layers		Product Description	Number of Coats	Consumption/ sqm/coat	Total Consumption
A	Filling Levelling Coat	Flexipave Resurfacer	2	0.33 kg/m ² /coat	0.66 kg/m ²
	Mixing Ratio	60% Aggregate No: 4 + 40% Water			
D	Intermediate Finish Coat	Flexipave Readymixed	2	0.60 kg/m ² /coat	1.20 kg/m ²
	Mixing Ratio	20% Water			
E	Finishing Coat	Flexipave Smooth	1	0.30 kg/m ² /coat	0.30 kg/m ²
	Mixing Ratio	15% Water			

*The material consumption data are based on standard application condition. It may vary (± 5%) depending on site condition & application technique.

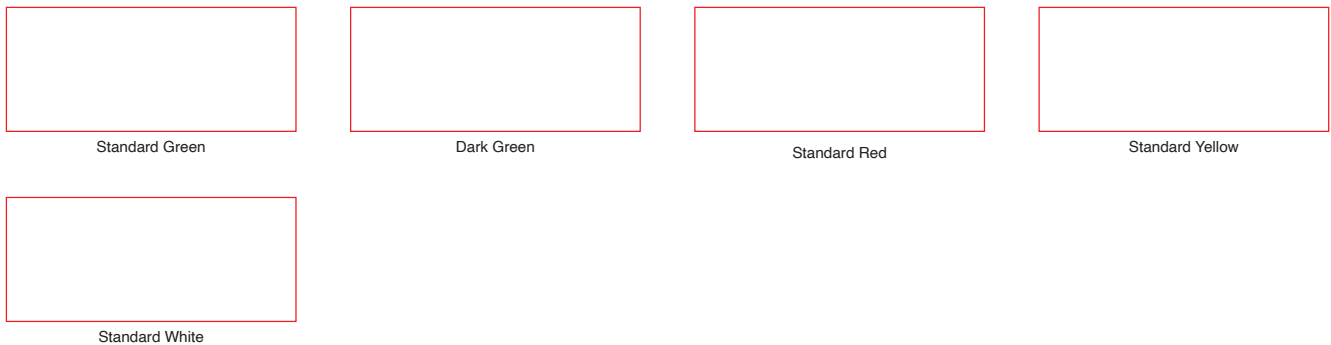
Tennis Court Colours

With tennis tournaments being televised live, colour plays a big part in the visual appearance of a tennis court, with some events even having their own distinctive tennis court colours. This has been replicated by local tennis clubs and courts used for recreational purposes at hotel resorts and private residences. Colour also plays an important role for the tennis player, the line judges and when the Hawk Eye referral process is used.

Flexipave finishcoats are available in a standard range of colours, mainly matching the popular tennis court colours in use today.

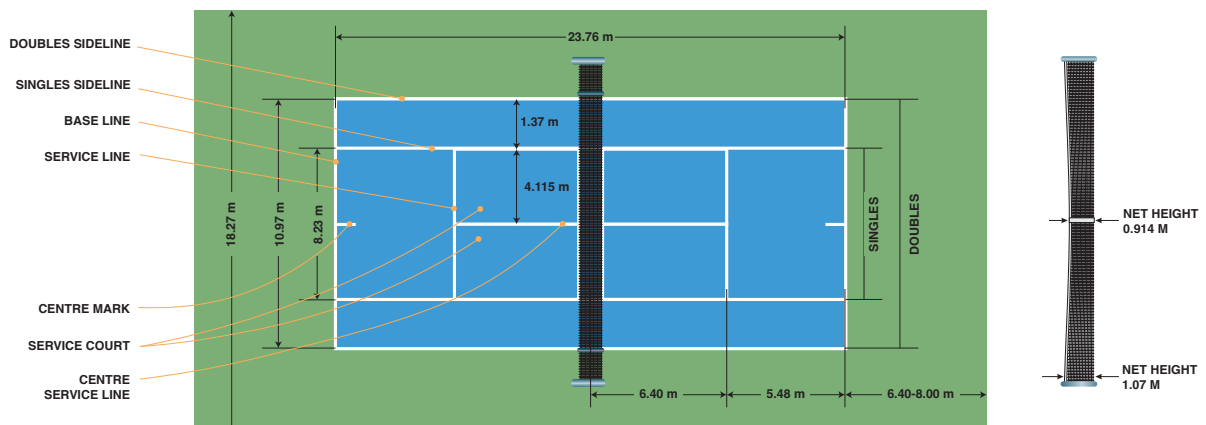


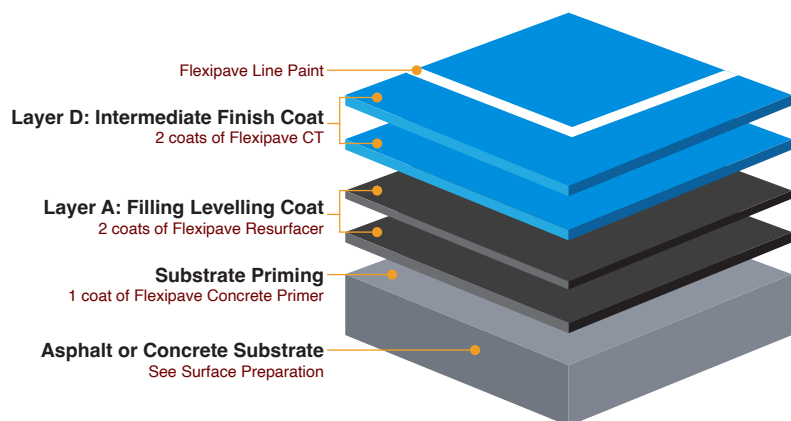
Line Marking Colours



Note: Colours will vary somewhat due to printing. Please ask your Terraco representative for a colour swatch for a more accurate representation.

TENNIS COURT DIMENSIONS & OTHER DETAILS





Flexipave Cycle Track System

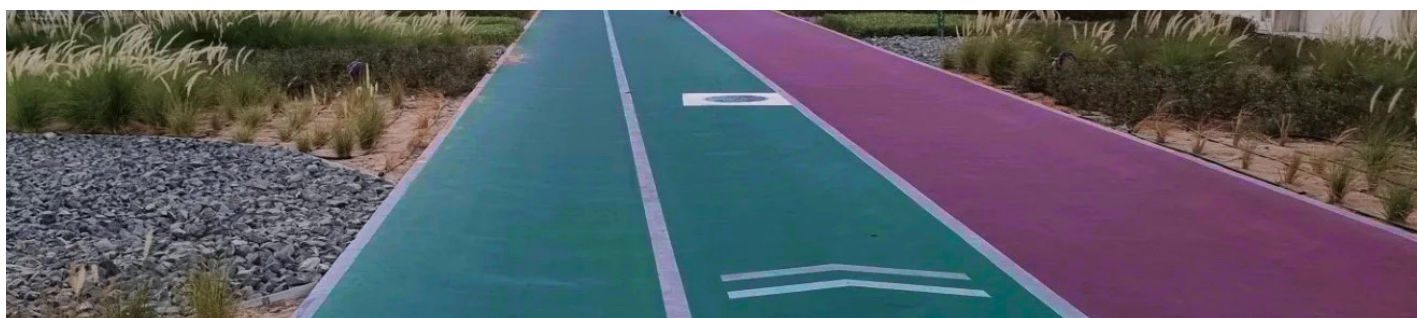
		Number of coats
A	Flexipave Resurfacer + Aggregate No. 4	2
D	Flexipave Readymixed	2
	Total number of coats	4

TERRACO FLEXIPAVE CYCLETRACK SYSTEM - 4 Coats

(Surface Preparation is excluded - site specific)

Layers		Product Description	Number of Coats	Consumption/ sqm/coat	Total Consumption
A	Filling Levelling Coat	Flexipave Resurfacer	2	0.33 kg/m ² /coat	0.66 kg/m ²
	Mixing Ratio	60% Aggregate No: 4 + 40% Water			
D	Intermediate Finish Coat	Flexipave Readymixed CT	2	0.60 kg/m ² /coat	1.20 kg/m ²
	Mixing Ratio	20% Water			

*The material consumption data are based on standard application condition. It may vary (± 5%) depending on site condition & application technique.



Product Range

1. Surface Preparation

A flooring system is only as good as the soundness of the substrate onto which it is laid and the attention to detail when it comes to surface preparation.

A full series of Flexipave preparation products is available to ensure that the surface can be prepared correctly prior to the installation of the specified ITF Classified Tennis Court. Please consult with your nearest Terraco representative or a Terraco approved Flexipave contractor for site survey.



25 kg pail

Flexipave® Filler

Flexipave Filler is an acrylic based ready-to-use filler for fine filling and smoothening of substrates. It is a surface preparation product which can be used prior to the application of the Flexipave Tennis Court System. It is designed for filling minor defects and hairline cracks in substrate. Flexipave Filler has elastic properties and will retain its adhesion permanently.



18 Ltr pail

Flexipave® Concrete Primer

Flexipave Concrete Primer is a highly developed primer in liquid form, which is absorbed deeply into the concrete substrate. It is a surface preparation product which can be used prior to the application of the Flexipave Tennis Court System. It binds the substrate and the surface, to give a solid base for the layers of the Flexipave Tennis Court System.

2. Layer coats for Flexipave System

The Flexipave Tennis Court System includes rubberised basecoats and various finishing components which is dependent on the tennis court pace chosen.

These technologically advanced, acrylic, waterbased products are widely appreciated as the benchmark for high quality sports floor coatings.

LAYER A



20 kg pail
Aggregate No. 4 - 25kg bag

Flexipave® Resurfacer + Aggregate No. 4

Flexipave Resurfacer is used in Layer A of the Flexipave Tennis Court System. Flexipave Resurfacer is blended with Terraco Agregate No. 4 (Silica sand 0.1-0.3mm) and water in specified mixing ratio to form an acrylic based filler for fine filling / smoothening of minor defects and hairline cracks in asphalt and concrete substrates. It has elastic properties and will retain its adhesion permanently.

LAYER B



18 kg pail,
200kg drum

Flexipave® Cushion Coat BC 1.0mm

Flexipave Cushion Coat BC 1.0mm is used in Layer B of the Flexipave Tennis Court System. It is a polymer modified acrylic coat containing 1.0mm rubber particles which provides the cushioning required in two of the Flexipave Tennis Court Coating Systems. i.e. Medium Slow Pace 2 (3 coats) and Medium Pace 3 (2 coats). The increased coats increases the cushioning of the tennis court playing surface and creates a slower pace to surface. The number of coats in the system can be adjusted to 4 coats to suit the required cushioning for volleyball courts. It is mixed with potable water on site in specified ratio.

LAYER C



18 kg pail,
200kg drum

Flexipave® Cushion Coat FC 0.5mm

Flexipave Cushion Coat FC 0.5mm is used in Layer C of the Flexipave Tennis Court System. It is a polymer modified acrylic coat containing 0.5mm rubber particles which provides the cushioning required in two of the Flexipave Tennis Court Coating Systems. i.e. Medium Slow Pace 2 (3 coats) and Medium Pace 3 (2 coats). The increased coats increases the cushioning of the tennis court playing surface and creates a slower paced surface. The number of coats in the system can be adjusted to 4 coats to suit the required cushioning for volleyball courts. It is mixed with potable water on site in specified ratio.

LAYER D



25 kg pail

Flexipave® Readymixed

Flexipave Readymixed is an alternative Layer D. The Intermediate coats are factory blended in one container of Flexipave Readymixed. It is fade resistant, waterproof and highly durable and protects underlying surface from weather and climatic conditions. It is mixed on site with potable water in specified ratio.

LAYER E



25 kg pail

Flexipave® Smooth

Flexipave Smooth in Layer E is the final finishcoat of the Flexipave Tennis Court System. It is available in a large selection of non-organic pigment colours which minimises fading. It is waterproof and highly durable protecting the underlying surface from weather and climatic conditions. It is mixed on site with potable water only in specified ratio.

3. Other



25 kg pail

Flexipave® Line Paint

An acrylic based, water-borne paint designed for line marking on the Flexipave Coating System. Used for tennis courts and other recreational surfaces.

Environmentally Friendly

Terraco aims to combine the latest green technology with carefully selected, resource efficient raw materials to create durable, eco-friendly products that improve comfort and quality of life. Terraco Flexipave products that have a minimal impact on the environment and surpass our customers' requirements and expectations.

Flexipave Tennis Court Systems offer environmentally friendly solutions as the systems include the use of recycled materials in the cushion coats.

This waterbased product range is based on an acrylic resin technology for both asphalt substrates and concrete substrates to avoid any harmful effects on the environment.

Flexipave products are designed and produced in compliance with Terraco's Green Principals.



Schools



Indoor Tennis Courts

Maintenance

Routine Maintenance

It is imperative for a tennis court to be properly maintained to ensure playing comfort and enjoyment. Depending on the amount of usage, and climatic conditions, a tennis court will require routine upkeep and maintenance. It is recommended that regular inspections take place and any remedial actions, such as using a leaf blower or low pressure water cleaning, be carried out promptly to protect the integrity of the playing surface.

Long term Maintenance

Due to neglect, tennis courts often fall into a state of disrepair. A full refurbishment will then be required to restore the playing surface. In this case, we recommend that you contact your nearest Terraco representative to carry out a detailed site inspection after which a Site Inspection Report will be prepared containing the recommended repair method and a top coat re-coating.

It is recommend that the following maintenance procedures be followed:

Substrate Preparation

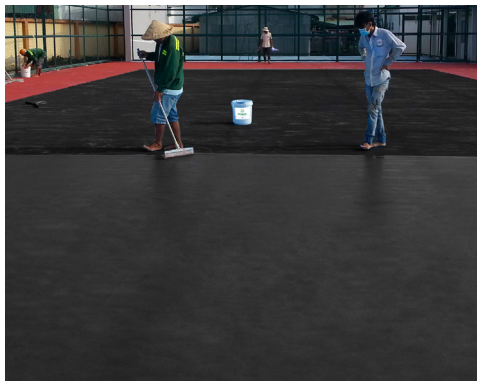
1. High pressure water jet the surface and be sure to include an anti-fungicide wash to remove any fungi / algae contamination.
2. Open all surface cracks and fill as required with Flexipave Filler.
3. Patch and repair any surface defects and minor levelling problems with Flexipave Filler as required.

Colour

Select a colour scheme for the tennis court using one or a combination of colours from the Terraco Flexipave Tennis Court Colour Range.

Application

1. Apply 2 coats of Flexipave Readymixed using a 1m long rubber squeegee allowing 2 hours drying time between coats. The first coat is applied perpendicular direction to the playing net and the second and final coats are applied in a parallel direction.
2. Apply 1 coat of Flexipave Smooth in a parallel direction to the playing net for a fade resistant, waterproof, highly durable playing surface. Note: The finishing coat is also available in a textured grade which contains non-slip aggregate known as Flexipave Textured.



Flexipave Resurfacer



The finished product

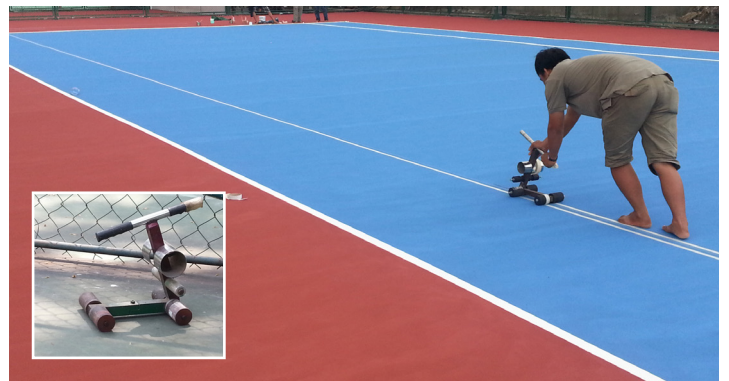


The finished product

Tools



Using a rubberised squeegee



Laying the masking tape

To accommodate the various types of tennis court surfaces required, Flexipave Sports Flooring Systems are applied using a rubberised squeegee to achieve the desired results.

To create neat, sharp lines on a tennis court, masking tape is recommended to mask the area to be painted. The masking tape can easily be applied using the machine shown above.

Reference Projects



Repton School, Abu Dhabi



DEWA Power station accommodation, Jebel Ali, Dubai



Next Generation School, Dubai



Tennis Training Academies



Basketball Court



Resort Facilities



Technical Data Sheets and Material Safety Data Sheets are available from your Terraco representative or on www.terraco.com. Although every precaution has been taken to ensure the accuracy of the colours and textures represented herein they should be considered indicative. Products containing natural aggregates may be susceptible to colour variation and we recommend that you order sufficient quantity for the complete project at one time. Terraco does not warrant the accuracy of the information provide d herein and all information is subject to change without notice.

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