

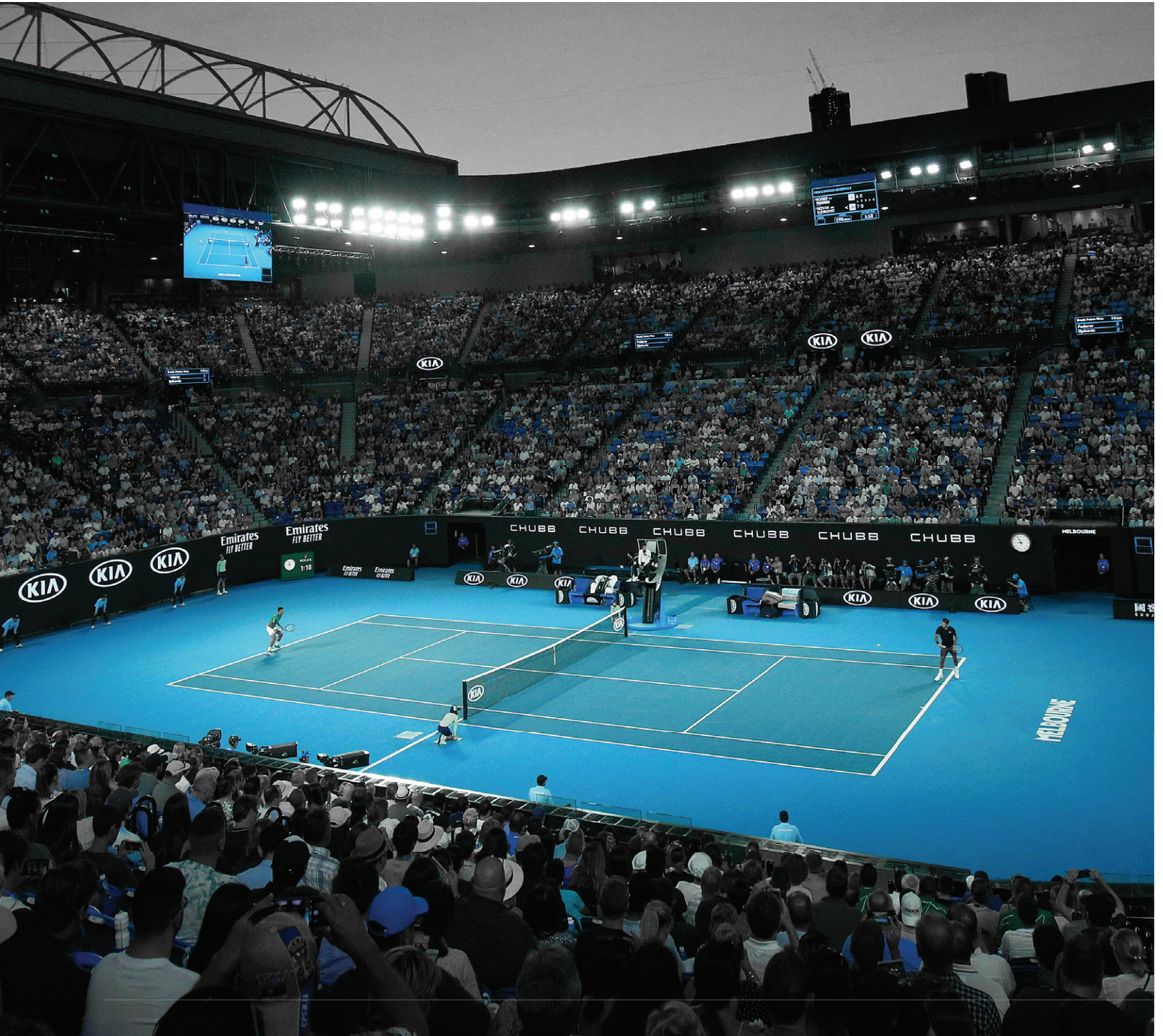
GreenSet® CUSHION FLEX

TECHNICAL SPECIFICATIONS
OF THE SURFACE

GreenSet® ROD LAVER
ARENA 2020

GreenSet®

THE BEST SURFACE FOR THE BEST TENNIS™



General Information, Description and Use

GreenSet® CUSHION FLEX is a **top quality, nonslip, wear-resistant, durable and enduring** surface for tennis courts and other sports floors, suitable for indoor and outdoor use, for all kind of players and for all kind of game styles. Developed with a **high shock absorbency** to offer an **extra care for the back and joints of players**, it has been **tested in laboratories and training centres**, and classified by the ITF (International Tennis Federation) as a Slow to Medium-slow pace surface.

GreenSet® CUSHION FLEX surface can be applied on new asphalt, concrete, wooden floor, or sport surfaces of existing resin that need to be renewed.

- Our products are supplied in convenient formulas that allow a uniform suspension of all components needing only the addition of fresh potable water to be ready for installation, ensuring consistency and homogeneity in any part of the court and between different courts worldwide.
- They are not dangerous, nor harmful, and are respectful with the environment, evidenced by strict external tests that reflect for instance, the total absence of toxic substances such as heavy metals or asbestos, and extremely low contents in VOCs (Volatile Organic Compounds).
- Manufactured in a factory assessed and certified as meeting the requirements of the **ISO 9001: 2008 QUALITY MANAGEMENT SYSTEMS**, as well as those of **ISO 14001: 2004 ENVIRONMENTAL MANAGEMENT**. The requi-

rements of ISO 14001 are an integral part of the **Eco-Management and Audit Scheme (EMAS)** of the European Union.

The GreenSet® surfaces' purpose is not to waterproof or seal, prevent capillary rise, or repair minor cracks. To ensure their qualities are preserved, follow the advice on the Maintenance and Care Guidelines. A minimum training in installing and preventing occupational hazards is recommended for professional personnel handling the products to facilitate proper understanding and interpretation of safety data sheets and labeling.

Description of the products:

Cushion Flex Surface System:

Apply a coat of GreenSet® Cushion Flex pre-mixed resin acrylic emulsion mixed with different rubber particle granometrys, applied with a serrated rubber squeegee.

Followed by Cushion surface system:

Cushion is a premixed resin acrylic emulsion mixed with different rubber particle granometrys. Our system consists of 3 Cushion layers. There is two ways to proceed with our Cushion system.

System A: After applying GreenSet® Black Base on top of the last Cushion layer, you can apply a layer of GreenSet® Color Base, which is premixed pigmented wear resistant acrylic emulsion. On top of GreenSet® Color Base, you apply a GreenSet® Finish Layer, which is pigmented wear resistant acrylic emulsion, as well.

System B: After applying GreenSet® Black Base on top of the last Cushion layer, you can apply a layer of GreenSet® Finish which is a pre-mixed pigmented wear resistant acrylic emulsion. On top of GreenSet® Finish, you can apply another coat of GreenSet® Finish.



Technical Data of the Products

BASE, FINISH, LINE CUSHION FLEX SURFACE SYSTEM

GreenSet®'s surface is suitable for indoor and outdoor use, composed of high-quality acrylic resins, specially selected siliceous sand, resistant pigments, additives, and organic solvents in an aqueous medium, while being respectful with the environment. These materials are used for all GreenSet® tennis surfaces (GreenSet® GRAND PRIX, GreenSet® CUSHION, Green-Set CUSHION FLEX, GreenSet COMFORT), as well as for other sport surfaces such as multisport facilities, circuits (BMX), basket-ball, handball, etc. We offer a wide variety of colors to choose from and develop all kinds of custom colors.

Health, Safety, and Environment

Read the Safety Data Sheet of each product available on request carefully and follow the drums' instructions for regular storage, handling, use, and disposal. All products are for professional use only. Do not ingest and keep out of reach of children. Dispose of containers and waste according to the regulations applicable in the region where they are being used.

Non-flammable, non-hazardous, and not harmful products (according to the Directive 1999/45 / EC - 2006/8 / EC), without restrictions on commercialization or use (Annex XVII REACH, etc.) and no need for specific labeling of danger, caution or hazard statement. They do not have any significant health risk or environmental impact, neither in short nor in the long term. They have no substance taking part in their mixtures in a

percentage greater than the exemption limit. All ingredients are listed in the list of pre-registered substances published by the European Chemicals Agency (ECHA) under Article 28 of the Regulation 1907/2006. They do not contain substances subject to authorization in Regulation EC 1907/2006 (REACH), no substances listed in the authorization list of REACH Annex XIV, and no substances that perforate the ozone layer (Regulation EC 1005/2009), and are not considered a hazardous waste under the European Directive 2008/98 / EC.

VOC

The limit content of VOCs (Volatile Organic Compounds) in the EU for all these products is 140.0 g/l (Cat. A.I) under the application of Directive 2010/75 / EU. The content in all GreenSet products is significantly below this limit, therefore obtaining the A + classification of INDOOR AIR QUALITY.

Storage and Transport

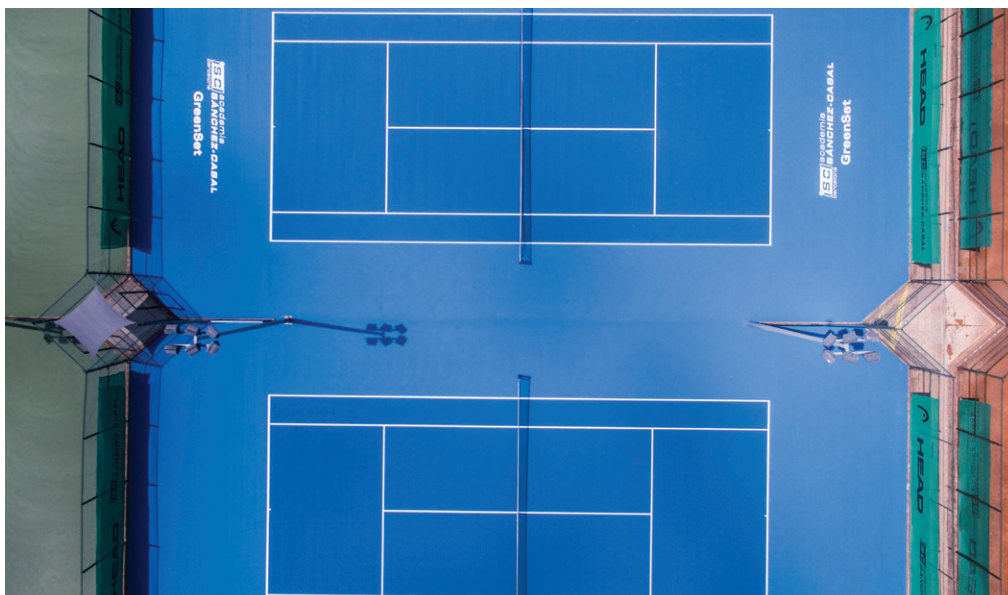
The minimum temperature is 5 °C, and the maximum 40 °C. Prolonged storage at temperatures outside this margin may damage the product.

The maximum duration of sealed factory drums under ideal storage conditions (a dry, cool place between 15 °C and 25 °C and protected against damage) are 24 months in all cases.

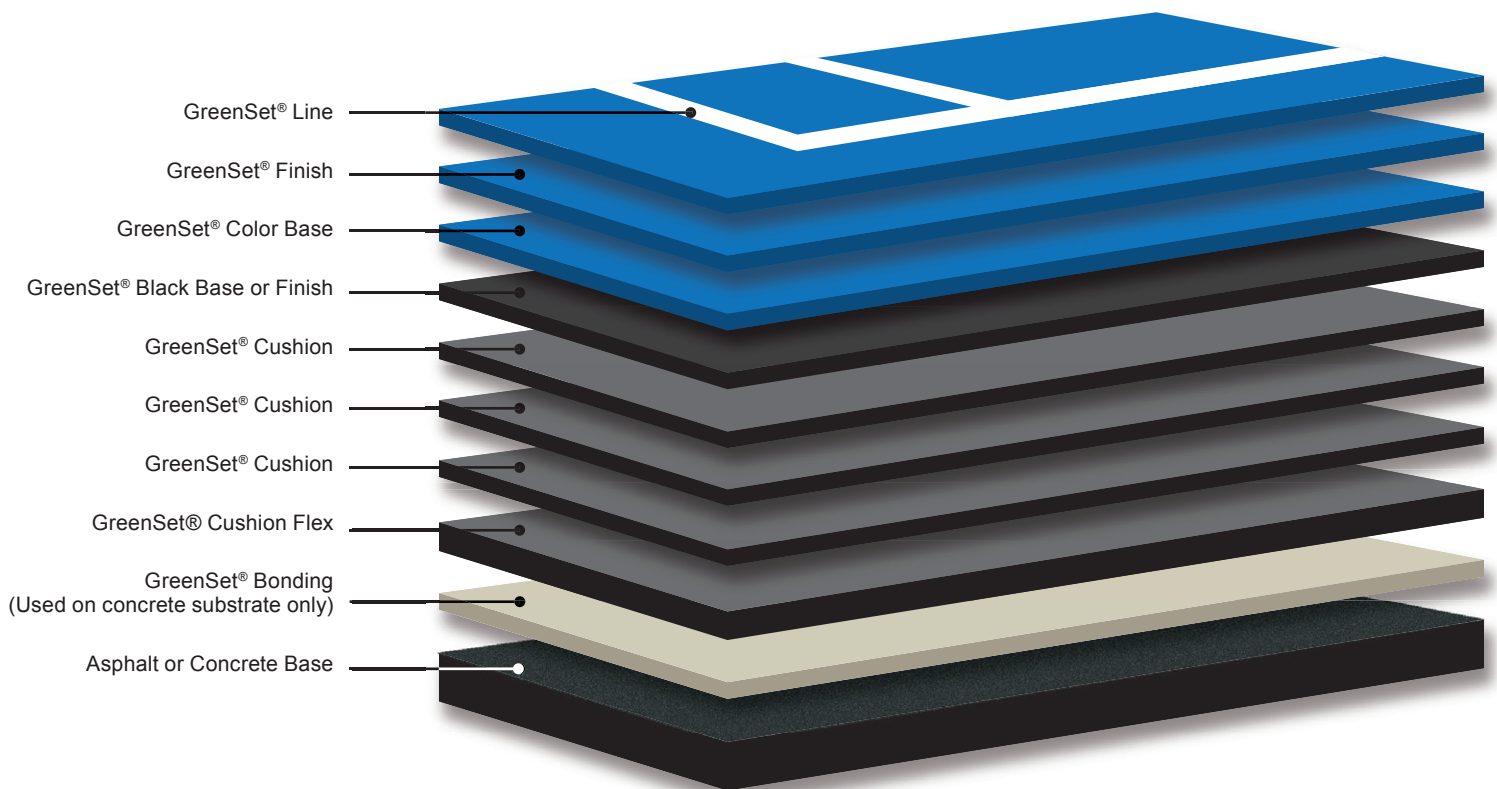
Products are not subject to any hazard classification or transport limitation (without ADR/RID, AND, IMDG / IMO, IATA/ OACI, etc.).



* ISO 16000/AFFSET reports the level of emission of volatile substances in indoor air, with a risk of inhalation, in a class scale ranging from A+ (very low emissions) to C (high emissions).



	Packaging	Density (at 20 °C)	VOC value	Dilution	Application rate	Drying times
CUSHION	Sturdy metal drums containing 20 kg.	Relative density 1.154	0.63 g/l	Maximum 10% to 20% or 2 to 4 litres of water per 20 kg (1 drum).	3.30 kg/ m2 total for the layers.	Minimums: 6 hours for 1 st and 2 nd layers; 4 to 6 hours for 3 rd and 4 th layers.
BLACK BASE OR FINISH	Sturdy metal drums containing: Base drums 25 Kg. Finish drums 25 Kg.	Relative density: 1.921	0.27 g/l	Maximum 8% to 10%, or 15 to 18 litres of water per 180 kg (6 drums).	0.83 kg/m ²	4 to 6 hours minimum.
COLOUR BASE	Sturdy metal drums containing 30 kg.	Average relative density: 1.915. Density slightly oscillates between 1.821 and 1.955 according to colour/reference.	Average 0.25 g/l. Variation by colour from 0.01 to 0.74 g/l.	Maximum 8% to 10%, or 15 to 18 litres of water per 180 kg (6 drums).	0,56 kg/m ²	4 to 6 hours minimum.
FINISH	Sturdy metal drums containing 25 kg.	Average relative density: 1.732. Density slightly oscillates between 1.679 and 1.817 depending on the colour/reference.	Average 0.25 g/l. Variation by colour from 0.01 to 17.00 g/l.	Maximum 8% to 10%, or 8 to 10 litres of water per 125 kg (5 drums).	0,46 kg/m ²	4 to 6 hours minimum.
LINE	All colours, sturdy metal drums containing 25 kg. White also in cans containing 5 kg.	Average relative density: 1.634. Density slightly oscillates depending on the colour/ reference.	Average 0.15 g/l. Variation by colour from 0.01 to 25.00 g/l.	Do not dilute. If needed, maximum 5%.	0,72 kg/m ²	Minimums: 4 hours to touch and 24 hours to walk on.



Technical data of the surfaces

ITF Certificates and Recognitions

GreenSet® offers surfaces classified by the International Tennis Federation in **all possible ITF classifications** (classes 1 to 5). GreenSet® also holds **ITF Recognitions** (One-Star Recognition and Two-Star Recognition).

The recommended classification by the ITF for GreenSet® CUSHION FLEX is as a Slow to Medium-slow pace surface and the ITF certificate is Category 1 Slow.

Fire Resistance

GreenSet® products have the Euroclass BFL - s1 certificate, according to UNE-EN ISO 11925-2:2011 and UNEEN9239- 1:2011, hence they can resist a prolonged attack by small flames and an individual burning object, both with limitations for propagating the flame. These are products whose contribution to the fire is minimal. They have very little smoke opacity, and in the event of a fire, the burning drops would only last 10 seconds.

Secure Transport

Our products are not classified as flammable or dangerous according to the regulation of classification, labeling, and packaging of substances and mixtures (CLP) Rgto. 1272/2008. They are also non-dangerous products for road, rail, sea, or air transport due to complying with ADR, IMDG, IATA.

Resistance to Friction

Our custom resin surfaces, such as GreenSet® CUSHION FLEX, deliver **unparalleled durability and endurance**. Their proven durability and high resistance to wear and abrasion are reflected in the continued good appearance and performance of heavily used facilities. All the resistance tests result in humid rubbing and washing carried out in our laboratories, whose results **exceed 10,000** (ten thousand) strokes/frictions. UNE-EN ISO 11998: 2007 Paints and Varnishes. Determination of the resistance of wet scrub and washability of coatings.

Our CUSHION FLEX surface has also passed the EN 13036-4 friction test in 2018, that requires a result of less than 110 when the surface is dry and we tested at 100, and a result greater than 55 when it is wet and we tested 57.

Resistance to Sunlight

The resistance of our surfaces and their colors to the sun is also very high. The tests for resistance to sunlight simulated in Sun Tester XLS during more than 500 hours reflect a resistance with a value of **QSun DE <2 according to DIN EN 55 014** in our standard surface.

Regarding the Environment

At GreenSet®, we are devoted to caring for the environment, safety, and innocuousness of our products. Therefore we continuously submit our products to rigorous tests and stricter tests than those legally required for this product type. Our products even comply with the concentration levels of heavy metals that are allowed for

packaging waste for the protection of the environment according to Directive DIR 94/62/CE. Moreover, they are not produced with materials that contain substances that are carcinogenic, mutagenic, or toxic for reproduction (CMR). Our products do not contain PFAs (fluorinated substances) nor do they have high concerning substances.

Absence of Harmful Substances (Heavy Metals, etc.)

Our products do not contain any harmful substances and are tested to confirm the absence of harmful substances. For example, tests using the technical method ME.Q.137 ICP-MS show that the acrylic resin products used in GreenSet® CUSHION FLEX meet the requirements for the absence of heavy metals (Lead, Mercury, Chromium, Cadmium) apply EN 71-3, Class III, which establishes chemical migration limits for small children's toys and objects.

Thickness of the Surface

The following are the approximate minimum standard thicknesses, but we can also customise them:

Thickness of just the cushioning layers: > 5 mm.

Thickness of the entire system: > 7mm.

RAFA NADAL ACADEMY



GreenSet® Worldwide, SL
info@greenset.net
www.greenset.net
T. (+34) 93 206 61 42

