



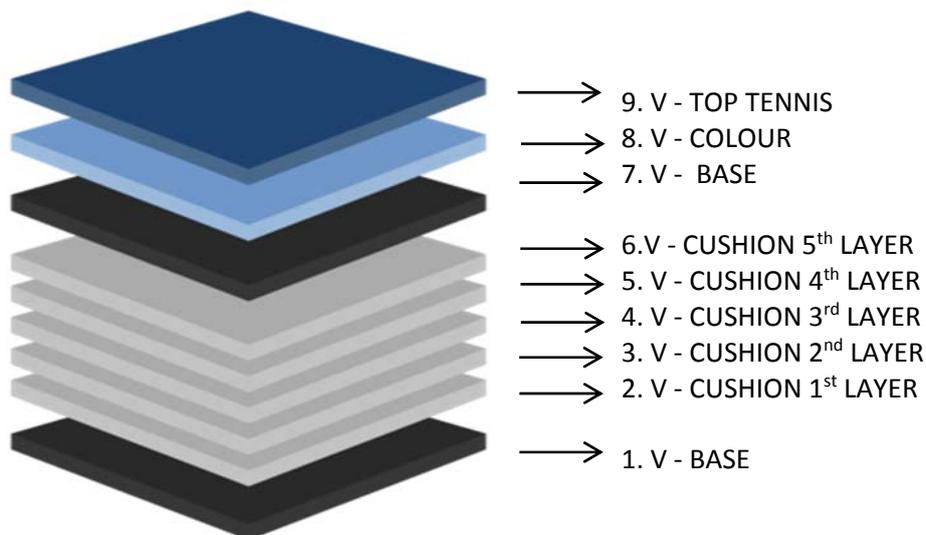
**V-CUSHION 5**  
**TECHNICAL DATA SHEET**

## VECTOR SPORTS DATA

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### 1. DESCRIPTION

V-CUSHION 5 SYSTEM is a sports surface comprising acrylic resins applied in nine layers. It is considered a high-performance system developed for tennis practice at both club and professional level that meets the specifications required by the International Tennis Federation (ITF).



### 2. FEATURES AND BENEFITS OF THE SYSTEM

#### Tested High Quality

Complies with the European standard UNE -EN 14877:2006 for "synthetic surfaces for outdoor sport areas " and the European standard UNE-EN 14904:2006 for " Indoor Surfaces for multi-sports use."

Complies with the requirements of the ITF CS 01 /02, regarding the classification of the speed of the tennis court.

#### Player comfort

Homogeneous and continuous surface without joints, which provides a comfortable support, seeking a balance between grip and rapid movement. At the same time, it allows a clean ball bounce across its complete surface. The limit of grip is suitable to not overload the body of the player.

#### **Durability and high resistance**

- Withstands all weather conditions.
- High adherence between the layers, allowing a good stability over time.
- Resistant colors: color retention is achieved using materials and high quality pigments and has been approved by accelerated irradiation tests to ensure long life without losing the tone nor the vivacity of their original colors
- See also Maintenance

#### **Impermeability**

- Impermeable system.
- The evacuation of the water is done by surface run-off towards the side of the court by a maximum slope of 1%, according to ITF rules.

#### **Application**

- Nine-layer system.
- Product ready to be applied.

#### **Colour range**

- Standard colors: Blue, Green, Red and Purple, in different tones.
- Possibility to manufacture special colors upon demand.

### **3. APPLICATION**

#### **Support**

System designed to be applied on asphalt. There is also the possibility to apply it on a non-porous concrete surface, adding a layer of epoxy mortar (see below)

There must be a 14 days period between the new asphalt extension and the application of V-CUSHION 5 sport system. In the case of concrete support, do not apply within 28 days.

For more details, please check TECHNICAL REPORT.

#### **Preparation of the base**

The base must be durable, smooth, clean, dry, free of dust, grease, gasoline and other foreign materials.

If necessary, the bumps and irregularities must be previously corrected with V- PB. For an optimal result do not apply more than 4 mm per layer and let dry each layer thoroughly. The layers of V-PB altogether must not exceed 1cm thick.

On concrete surfaces with slope, before applying the V-CUSHION 5 system, V-C/BASE will be applied to ensure a perfect adhesion with the concrete. V-C/BASE is a two-component mortar based on epoxy resins. Approximate consumption: between 0.8 and 1.2 kg/m<sup>2</sup>.

### Application of the V CUSHION 5 sport system

Nine-layer system based on use acrylic resins, without the necessity of adding any aggregate.

9 Layers	Product	Aprox. Consumption	Drum capacity
Layer 1	V-BASE	1,10 kg/ m <sup>2</sup>	20 kilos
Layer 2	V-CUSHION	0,50 kg/ m <sup>2</sup>	20 kilos
Layer 3	V-CUSHION	0,50 kg/ m <sup>2</sup>	20 kilos
Layer 4	V-CUSHION	0,50 kg/ m <sup>2</sup>	20 kilos
Layer 5	V-CUSHION	0,50 kg/ m <sup>2</sup>	20 kilos
Layer 6	V-CUSHION	0,50 kg/ m <sup>2</sup>	20 kilos
Layer 7	V-BASE	0,65 kg/ m <sup>2</sup>	20 kilos
Layer 8	V-COLOUR	0,55 kg/ m <sup>2</sup>	20 kilos
Layer 9	V-TOP TENNIS	0,45 kg/ m <sup>2</sup>	20 kilos

Marking	V-LINE	0,01 kg/ m <sup>2</sup>	20 kilos
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**V-BASE** : base coat of matte black color made of acrylic copolymer resins and high resistance pigments. It has a great degree of compaction to generate a strong first layer with a high wear resistance.

**V-CUSHION**: comfort layer made of an acrylic binder and rubber particles. Its function is to absorb shocks and reduce injuries in joints and muscles and provide greater comfort and enjoyment of the game.

**V-COLOUR**: intermediate layer of matte color (see color range) comprising copolymer acrylic resins and high resistance pigments. It has a wear resistance.

**VC-TOP TENNIS**: finish layer of matte color based on acrylic copolymer resins and high resistance pigments with an excellent light fastness. With high wear resistance and durability and good resistance to weather agents. Its texture ensures, on the movement of the player, a uniform bounce of the ball and a good grip.

**V-LINE**: it has the function of line marking, of matte color based on acrylic copolymer resins and high resistance pigments with an excellent light fastness. Has high wear resistance, hardness and durability as well as to weather agents.

Apply with a rubber squeegee, except for line marking.

When applying a minimum temperature of 10 ° C is required. (both ambient temperature and base temperature).

Do not apply at imminent risk of rain or excessive heat.

If the application is carried out indoors the minimum temperature can be 15 ° C.

#### **4. DRYING AND CURING**

During the drying time and curing the minimum temperature required is 10 ° C

The temperature and humidity determine the drying time between coats. In normal weather conditions, with a temperature at around 23°C, 6 hours are enough for V-BASE layer to dry, 4 hours for V-COLOUR and 3 hours for V-TOP TENNIS.

#### **5. MAINTENANCE**

To keep the track in good playing conditions and avoid buildup that could damage the pavement gradually, it is recommended regular cleaning with pressurized water.

In courts where the use is more intensive, such as in clubs, the renewal should not be required in at least 4 years. Depending on the intensity and usage, it may be necessary to apply one new top layer a 2-layer resurfacing, or a 3-layer reconstruction in a long-term, also depending on the stability of the base on which the court has been built.

#### **6. STORAGE**

The containers shall be stored so that they are sheltered from the weather, in places protected from frost and strong sun exposure. The temperatures below 5 ° C may affect product quality and thus cause damage to this. They may be kept for a year in their original containers, provided that they are tightly closed, in good condition and undamaged.

#### **7. COLOURS**

- Light blue
- Dark blue
- Light green
- Dark green
- Light purple
- Dark purple
- Grey
- Red