SPORTGUM

Synthetic shock-absorbing mortar with variable thickness for playing fields and tennis courts of the line– EVOLUTION SYSTEM

***Sportgum* is formulated with water based resins and granular aggregates, it is a one-component liquid thickness cushioning product (grain size 0 – 0,8 mm / 0 – 0.03 in). To be used as an underlying layer for achieving a cushioning effect in the professional tennis courts system – Evolution System (certificato ITF2). It can be used both for outdoor and indoor applications.**

BENEFITS

- Excellent capability to absorb the shock.
- High filling capability.
- Easy application.
- Excellent adhesion to support.
- Applicable to any asphalt support with no need for a primer.
- Elasticity and durability over the time.
- Certified product for **ITF** (**ITF2**)

YIELD

0,8 L/m^2 per mm of thickness.

Minimum thickness: 2 mm.

COLOUR

Black.

PACKAGING

25 L plastic buckets.
Pallet: 48 buckets (1200 L).

APPLICATION FIELDS

Product designed to pose playgrounds of the TENNIS - EVOLUTION SYSTEM line in combination with the *Floorgum Paint* coating (see product data sheet). The *Sportgum* + *Floorgum Paint* system is **ITF2** (**International Tennis Federation - ITF**) certified. The product can be applied on asphalt substrates without primer or on concrete substrates. Suitable for indoors and outdoors applications.

STORAGE

Store the product in original and well closed packaging in well ventilated areas, away from sunlight and ice, with temperatures included between +5°C and +35°C (+41°F and +95°F). Storage time: 24 months.

PREPARATION OF THE SUPPORT

The substrate must be completely hardened, dry and sufficiently resistant. The surface must be thoroughly clean, well consolidated, without crumbly and inconsistent parts, perfectly levelled and must not have water stagnation. Before applying the product, it is recommended to cover every element that does not need to be coated. In case of application on substrates affected by rising damp, provide for the creation of an adequate vapour barrier (see *WATstop* technical data sheet).

Concrete

In the presence of cracks, restore them with suitable cement mortar. In the presence of humidity problems, apply *WATstop* as a vapour barrier (yield: 1,0 kg/m^2, see technical data sheet). if there is no humidity, on not onto-the-ground concrete smooth substrates, apply the *Vapsotop* primer (yield: 0.10 – 0.15 kg/m^2 according to the degree of absorption of the substrate - see technical data sheet).

Asphalt

On rough asphalt substrates before applying *Floorgum Paint*, the surface must be primed with *SBS-bond* (see technical data sheet).
In the case of newly made asphalt, wait until it has cooled down and is perfectly cured, then proceed with the direct application of *Sportgum*. For supports not listed in the technical data sheet, contact the Diasen technical office.

Treatment of expansion joints

If present, the joints must be perfectly clean in order to eliminate any element present inside. They will then be filled with the polyurethane sealant *Diaseal Strong* (see technical data sheet) before applying the EVOLUTION SYSTEM.
In correspondence with the joints, over time, micro-cracks may occur due to the movements of the underlying support which do not affect the functionality of the system. It is advisable to create the expansion joints near the demarcation of the play lines to make them less visible and have a better aesthetic effect.

MIXING

The product is single-component, ready for use. Before proceeding with the drafting, mix with a mixer drill until a homogeneous mixture is obtained, if necessary dilute with a maximum of 10% water.
The specified water is indicative.
Never add foreign components to the mixture.

SPORT – FLOORING APPLICATION: EVOLUTION SYSTEM

1. *Sportgum* must be applied in two coats.
2. Apply a first layer with a water squeegee or a short-haired roller, ensuring total coverage of the surface. In case of rain on a product that is not perfectly dry, carefully check its suitability for the subsequent coating.
3. Once the first one has completely dried, apply a second layer until reaching the yield indicated in this technical data sheet.

4. Smooth well to obtain a homogeneous and perfectly flat surface.
5. When the *Sportgum* is completely dry, proceed with the application of the *Floorgum Paint* coating for sports surfaces (see technical data sheet) with a roller, airless or water squeegee in two or more layers until reaching the yield indicated in this technical data sheet.

For a better result and a more homogeneous coating it is recommended to cross the layers.

6. When *Floorgum Paint* is completely dry, use the acrylic paint *Colorflex* to mark the boundaries lines (see technical data sheet).

DRYING TIMES

At a temperature of di 23°C (+ 73.4 °F) and relative humidity of 50% the product dries out completely in 4 hours.

- Drying times are influenced by the relative humidity of the environment and temperature, and can also vary significantly.
- If applied with a higher yield than expected, drying times could significantly increase.

SUGGESTIONS

- Do not apply at environmental temperature or at support temperature lower than +5°C (+41°F) and higher than +35°C (+95°F).
- During summer season, apply the product in the cooler hours of the day, away from sunlight.
- Do not apply with imminent threat of rain or frost, in conditions of strong fog or with

relative humidity higher than 70%

- During the winter season the substrate must be perfectly dry. Moisture can cause blanching and detachment.
- When flat surfaces are involved, provide a sloping screed with adequate inclination to allow the water to flow out.
- It is very important to prepare suitable expansion joints in the screed at regular intervals. The joints must be performed to perfection to avoid the occurrence of cracks.

CLEANING

The equipment used can be washed with water before hardening of the product.

SAFETY

While handling, always use personal protective equipment (PPE) and respect the instructions described in product safety data sheet.

* The data reported, even if carried out according to standard test methods, are indicative and may undergo changes as the specific site conditions vary.

Technical Data *

Features		Units
Yield	0,8 per mm of thickness. Minimum thickness: 2 mm	L/m^2
Colour	black	-
Thickness of the application	2,0	mm
Dilution	If necessary, max. 10% of water	-
Grain size	0 – 0,8	mm
Waiting time between 1st and 2nd coat (T=23°C, + 73.4°F; U.R. 50%)	4	ore
Application temperature	+5 / +35	°C
	+41 / +96	°F
Drying time (T=23°C, + 73.4°F; U.R. 50%)	4	hours
Storage	24 months, in the original packages and stored in dry places	months
Packaging	25 L plastic buckets	L

Final performances		Units	Norm	Result
Break Elongation	460.22%	-	ISO 527-1	-
Tensile Strength	0.43	MPa = N/mm^2	ASTM D2370	-
Permanent deformation with 70% of elongation	2.0	mm	-	-
Permanent deformation percentage	8%	-	-	-
Water vapour permeability	μ = 665	-	UNI EN ISO 7783	-

Crediti LEED®

Standard GBC HOME

Thematic Area	Credit	Score
Materials & Resources	MRc2- Construction Waste Management.	from 1 to 2
	MRc4 - Recycled Content.	from 1 to 2
	MRc5 – Regional Materials.	from 1 to 2
Indoor Environmental Quality	IEQc3.2 - Construction Indoor Air Quality Management Plan—Before Occupancy.	1
	IEQc4.1 - Low Emitting Materials - Adhesives and Sealant.	1

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