

SMOOTHERS – liquid mortars with variable thickness

FLOORGUM ANTRACITE

Synthetic mortar for the regularization of playing fields and tennis courts – PRO SYSTEM

Floorgum Antracite, formulated with water-based resins and granular aggregates, it is a single-component liquid product to be used as an underlying coat for playing fields and tennis courts (namely PRO SYSTEM LINE). The product is also suitable for applications with variable thicknesses to regularize and prepare concrete substrates or bituminous binder for the following application of Diasen coatings. Can be used outdoors and indoors.

BENEFITS

- Excellent filling capacity.
- Easy and quick application.
- Excellent adhesion to the substrate.
- Applicable over asphalt without primer.
- Elastic and long-lasting.
- Certified product for ITF (ITF3)

YIELD

1,5 kg/m² in two layers.

COLOUR

Anthracite.

PACKAGING

20 kg plastic buckets.
Pallet: 48 buckets (960 kg).

APPLICATION FIELDS

Product designed for the set-up of tennis courts, specifically the **TENNIS - Pro System line**, when used in combination with the coating *Floorgum Paint* and the one-component liquid coating *Colorflex*, for the creation of boundaries lines. The *Floorgum Antracite + Floorgum Paint* system is **ITF3 (International Tennis Federation - ITF)** certified. *Floorgum Antracite* is also suitable for levelling and regularizing walkable concrete or asphalt surfaces. On asphalt surfaces it is not necessary to use a primer. Suitable for both indoor and outdoor applications.

STORAGE

The product must be stored in the original containers perfectly closed in well-ventilated areas, away from

sunlight and frost, at temperatures between + 5 °C (+41°F) and + 35 °C (+96°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

If there are crack on the surface, fill them with a suitable cement mortar. If the substrate is wet or with rising damp, it is strictly necessary to use *WATstop* as vapour barrier (yield: 1,0 kg/m², see technical data sheet). if no humidity is present, on not onto-the-ground smooth concrete substrates apply *Vapostop* as primer (yield: 0.10 – 0.15 kg/m² according to the degree of absorption of the substrate - see technical data sheet).

Asphalt

On rough asphalt substrates the surface must be primed with *SBS-bond* (see technical data sheet) before applying *Floorgum Paint*. In the case of newly made asphalt, wait until it has cooled down and is perfectly cured, then proceed with the direct application of *Floorgum Antracite*.



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For all the substrates that are not listed in this technical data sheet, please contact Diasen technical office.

Treatment of expansion joints

If present, the joints must be perfectly cleaned in order to eliminate any element present inside. Once they are free from any residue, fill them with polyurethane sealant *Diaseal Strong* (see technical data sheet) before applying the **Pro System** or the chosen system. Over time micro-cracks may occur on the joints, due to the movements of the underlying support; these won't affect the functionality of the system. It is advisable to make the expansion joints as near as possible to the boundaries lines to make them less visible and have a better aesthetic effect.

MIXING

Floorgum Anthracite is a single-component, ready-to-use product. Mix the product with a professional mixing drill until a homogeneous, lump-free mixture is obtained. In extremely hot climatic conditions, a maximum of 10% clean water can be added. Never add foreign components to the product.

SPORT – FLOORING APPLICATION: PRO – SYSTEM

1. *Floorgum Anthracite* must be applied in two coats.
2. Apply a first layer with a water squeegee or a short-haired brush, 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. When the first coat is completely dry, apply a second coat of *Floorgum Anthracite* until perfectly cover the surface.
4. Level the surface to have a homogeneous and perfectly even surface.
5. When *Floorgum Anthracite* is completely dry, apply, proceed by applying the coating for sportive systems *Floorgum Paint* (see technical data sheet) by roll, 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* has completely dried out, use *Colorflex* acrylic paint for the demarcation of the game lines (see technical data sheet).

DRYING TIME

At 23°C (+73°F) and 50% of relative humidity level, the product dries in 4 hours.

- Drying time is influenced by relative humidity level and by temperature and may change significantly.
- If applied with a higher coverage than the one stated in this technical data sheet, drying time maybe significantly longer.

SUGGESTIONS

- Do not apply at temperatures (room and substrate) lower than +5°C (+41°F) or higher than +35°C (+95°F).
- During summer season apply the product during the cooler hours of the day, away from sun.
- Do not apply with imminent threat of rainwater or ice, with strong fog or with relative humidity level higher than 70%.
- During winter season the substrate must be perfectly dry. Moisture can cause bubbles and detachments.
- In the case of flat surfaces, provide a sloping screed with an 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.
- To keep the surface of the **Pro - System** clean, it is necessary to plan and carry out maintenance interventions: see the technical data sheet of the *Floorgum Paint* product for details on how to proceed.

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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, even if carried out according to regulated tests are indicative and they may be change when specific site conditions.

Technical Data *		
Features		Unit
Yield	1,5	kg/m ²
Aspect	paste	-
Colour	anthracite	-
Dilution	if needed max 10% of water	
Waiting time between 1 st and 2 nd coat (T=23°C, +73.4 °F; R.H. 50%)	4	hours
Application temperature	+5 /+35	°C
Drying Time (T=23°C, +73.4 °F; R.H. 50%)	4	hours
Storage	24 months in original containers and dry place	months
Packaging	20 kg plastic bucket	kg

Final Performances		Units	Regulation	Results
Adhesion over asphalt	-	-	-	excellent
Break Elongation Test	754,60	%	ISO 527-1	elastic
Pull Off Adhesion Tester (<i>concrete</i>)	1,3	MPa	EN ISO 4624	good
Pull Off Adhesion Tester (<i>bitumen membrane</i>)	1,0	MPa	EN ISO 4624	good
Water vapour permeability	μ = 655	-	EN ISO 7783	-



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DIASEN Srl - Z.I. Berbentina, 5 - 60041 Sassoferrato (AN)
 Tel. +39 0732 9718 - Fax +39 0732 971899
 diasen@diasen.com - www.diasen.com