FLOORGUM PAINT

Multi-purpose walkable synthetic coating

One-component liquid coating formulated with water-based resins (particle size 0.06 - 0.1 mm). To be used as a multi-purpose walkable coating, for the creation of walkable protective coatings on liquid waterproofing systems, as an alternative to the traditional ceramic tile. The product is also suitable for the creation of multipurpose playgrounds, cycle paths, delimitation of pedestrian areas and anti-slip coatings. Resistant to sudden changes in temperature, UV rays and wear.

BENEFITS

- Easy to use;
- Creates a non-slippery walkable coating;
- Excellent resistance to freeze-thaw cycles, UV rays, salty air and salt in general;
- Ideal for cycling on;
- High elasticity;
- It can be applied to finish waterproofing systems based on synthetic resins;
- It can be tiled or covered with another coating;
- *Solvent free* product.
- ITF certified product (**ITF2**, **ITF3** e **ITF5**)
- Certified product for *Padel* courts (**EN 12235:2013**, ball bounce: 96 %)

YIELD

1,20 kg/m^2.
0,25 lb/ft^2.

COLOUR

Blue, light blue, grey, red, green, sand. On request, it is possible to produce customized colours.

PACKAGING

20 kg (44.09 lb) Plastic bucket.
Pallet: 48 buckets (960 kg) (2116.44 lb).

APPLICATION FIELDS

The product is suitable for the construction of cycle paths (ANAS certified), for covering concrete or asphalt surfaces intended for sports facilities (tennis courts, basketball, soccer fields) as well as for covering concrete or asphalt surfaces to make them walkable and anti- slide. It can be used as a protective product in combination with liquid waterproofing products, making the surface walkable. It is used both indoors and outdoors.

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 (+ 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 crumbling or inconsistent parts. Remove dust, grease and oils. The substrate temperature must be between + 5 °C (+41°F) and + 35 °C (+95°F).
In the case of a newly built concrete base, this must be sufficiently seasoned and have carried out the appropriate shrinkages.
The surface must not have water stagnation. On rough asphalt substrates before applying *Floorgum Paint*, the surface must be primed with *SBS-bond* (see technical data sheet), and, if necessary, possibly level with *Floorgum Anthracite* (see technical data sheet). In case of direct application on asphalt it is necessary to apply the *SBS-bond* primer (see technical data sheet), according to the roughness of the substrate.

In case of application on substrates affected by rising damp, provide for the creation of an adequate vapor barrier (see *WATstop* technical data sheet)

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. It is possible to obtain a product with a more or less fluid consistency depending on the application to be carried out. Never add foreign components to the mixture.

APPLICATION

1. If there are dampness problems apply *WATstop* as a vapour barrier (yield: 1.0 kg/m^2, see technical data sheet).
2. In the absence of humidity, on not onto-the-ground concrete smooth substrates, apply the primer *VAPOSTOP* (yield: 0.10 – 0.15 kg/m^2 according to the absorption degree of the substrate - see technical data sheet).
3. When the primers are completely dry, apply *Floorgum Paint* 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. In case of rain on a product that is not perfectly dry, carefully check its suitability for the subsequent coating.

To realize walkable surfaces in combination with waterproofing systems by Diasen, it is necessary to directly apply *Floorgum Paint* without primer.

SPORT – FLOORING APPLICATION

1. If there are dampness problems apply *WATstop* as a vapour barrier (yield: 1.0 kg/m^2, see technical data sheet).
2. In the absence of humidity, on not onto-the-ground concrete smooth substrates, apply the primer *VAPOSTOP* (yield: 0.10 – 0.15 kg/m^2 according to the absorption degree of the substrate - see technical data sheet).
3. When the used primer has completely dried out:
   - **3.1.** *EVOLUTION SYSTEM* - To obtain an **ITF2**, apply a first layer of *Sportgum* (see technical data sheet).
   - **3.2.** PRO SYSTEM - To obtain an **ITF3**, apply a first layer of *Floorgum Antracite* (see technical data sheet).
   - **3.3.** X-PRO SYSTEM - To obtain an **ITF5**, directly apply *Floorgum Paint* (see below for application details).
   - **3.4.** PADEL SYSTEM – To obtain surfaces for sports areas such as *Padel* courts, apply *Floorgum Paint* directly (see below for application details).
4. Wait for the complete drying of the chosen product (see points **3.1., 3.2., 3.3., 3.4.**), then apply *Floorgum Paint* with a roller, airless or water squeegee in two or more layers until reaching the yield indicated in this sheet technique. For a better result and a more homogeneous coating it is recommended to cross the layers. In case of rain on a product that is not perfectly dry, carefully check its suitability for the subsequent coating.
5. When *Floorgum Paint* is completely dry, use *Colorflex* acrylic paint to mark the boundary lines (see technical data sheet).

DRYING TIME

At a temperature of 23 °C (+ 73.4°F) and relative humidity of 50% the product dries completely in 4 hours and can be walked on after 12 hours.

- Drying times are influenced by the relative humidity of the environment and temperature, and can also vary significantly.

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%.

- When flat surfaces are involved, provide a sloping screed with adequate inclination to allow the water to flow out.
- To keep a clean surface it is necessary to plan and carry out maintenance interventions. Ordinary maintenance interventions require that the surface must be cleaned of dirt or leaves using the appropriate tools. Every year, for a deeper cleaning, it is recommended to use a high pressure cleaner.

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.

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* These data, even if carried out according to regulated test methods are indicative and may change varying the specific site conditions.

Technical Data *

Features			Units
Yield	1.20 kg/m^2		kg/m^2
	0.25 lb/ft^2		lb/ft^2
Aspect	semi-dense		-
Colour	Blue, light blue, grey, red, green, sand.		-
Dilution	max 10% of water		-
Grain size	0.06 – 0.1		mm
Waiting time between 1st and 2nd coat (T=23°C, +73.4°F; R.H. 50%)	4		hours
Application temperature	+5 /+35		°C
	+41/+95		°F
Maximum humidity	70%		-
Drying time (T=23°C, +73.4°F; R.H. 50%)	4		hours
Walkability	12		hours
Storage	24 months in original container and dry place		months
Packaging	plastic bucket	20 kg	kg
		44.09 lb	lb

** 1680 hours of weathering tests correspond to about 10 years. This correspondence is merely indicative and it may change according to the weather conditions where the product will be used.

Final performance		Unit	Regulation	Result
Resistance to abrasion (1000 rotations with wheels CS-10)	0,099 g 0,46%	g	UNI 10559	-
Resistance to Weathering Test **	1680 hours (> 10 years**)	hours / years	UNI EN ISO11507	-
Fire resistance	class B – s2, d0	-	UNI EN 13501-1	-
Resistance to hydrocarbons	-	-	ANAS certification	No flaw at the end of the test
Resistance to diesel oil	-	-		
Resistance to lubricant oils	-	-		
Resistance to salts (saturated $CaCl_2$ and NaCl)	-	-		
Resistance to pendulum sliding friction	PTV = 66	-		resistant

Resistance to slip	μ = 1.127	-	UNI 8272 part 11°	level 3
Adhesion on asphalt	-	-	-	excellent
Adhesion on concrete	0.56	MPa = N/mm^2	UNI EN 1542	A/B break type
	81.20	lbf/in^2	-	-
Adhesion on bituminous membrane	< 1,0	MPa = N/mm^2	ISO 4624	sufficient
	<145	lbf/in^2	ASTM D4541	-
Adhesion on rubber mat	< 1.0	MPa = N/mm^2	ISO 4624	sufficient
	<145	lbf/in^2	ASTM D4541	-
Resistance to freeze-thaw cycles (-15°C/+15°C)	-	-	UNI EN 202 ASTM C666	unchanged
Adhesion on *Sportgum*	> 7.0	MPa = N/mm^2	ISO 4624	excellent
	> 1015.3	lbf/in^2	ASTM D4541	-
Adhesion on *Floorgum Antracite*	> 7.0	MPa = N/mm^2	ISO 4624	excellent
	> 1015.3	lbf/in^2	ASTM D4541	-
Water vapour permeability	μ = 689	-	UNI EN ISO 7783	-

*** credits valid only for LEED standard for Schools, LEED for Core & Shell, v. 2009

LEED® credits

*****Standard LEED for New Construction & Major Renovation, LEED for Schools, LEED for Core & Shell, v. 2009**

Thematic area	Credit	Score
Energy & Atmosphere	EAp2 - Minimum energy performance	mandatory
	EAc1 – Optimize Energy Performance	from 1 to 19
Materials & Resources	MRc2- Construction Waste Management	from 1 to 2
	MRc4 – Recycled Content	from 1 to 2
	MRc5 – Regional Materials	from 1 to 2
	MRc6 - Rapidly Renewable Materials	1
Indoor Environmental Quality	IEQc3.2 - Construction Indoor Air Quality Management Plan—Before Occupancy	1
	IEQc4.2 - Low Emitting Materials - Paints and Coatings	1
	IEQc11 - Mold Prevention**	1

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