

Caucho

Playground system

Flexible pavement for playgrounds



Description

Flexible two-layer seamless paving, composed of a first layer of highly elastic black rubber chippings bonded with the chosen resin, followed by a second more resistant and colored outer layer of EPDM Synthetic Rubber chippings agglomerated with aromatic or aliphatic resin.

Observations

- The substrate must be clean, dry and free of oil and grease. And with a roughness of 70 µm. between ridges and valleys.
- Apply the pavement with environmental conditions of temperature 15-30 °C and humidity 50%-80%. .

Characteristics

- Dough life: ±45 min. (20°C)
- Workability: ±60 min.
- Minimum thickness: 10 mm
- Thickness per layer: 10-40mm

Drying

- At 23 °C and 90% relative humidity: >7 h.
- At 23 °C and 40% relative humidity: >19 h.
- Total hardening: 2-5 days

**These times may vary considerably depending on ambient temperature and relative humidity.*

Performances

- Grain size: 1 - 4 mm. with average centered at 2.3 mm.
- Density: 0.71 g/cm³
- Color: Color chart
- Shore A Hardness: 65 ± 5 (DIN 53505)
- Breaking load: 5-6 MPa (DI 53504)
- Elongation at break: 400%-700% (DIN 53504)
- Fire resistance Euroclass: CflS2 (DIN 4102)
- Abrasion resistance 1000 cycles: <2 g. (EN-ISO 5470-1)
- UV stable.

** These results have been obtained under standard conditions and may vary depending on the installation.*

Enforcements

- Especially suitable for the realization and / or repair of flexible pavements based on EPD type rubber chippings.
- Ideal and fast system for the manufacture of playgrounds, pavements in schools, nurseries, kindergartens, communities of neighbors, etc.
- Continuous pavement without joints with a multitude of color combinations.
- The system is made directly in situ with polyurethane resin to achieve a perfect fit of the system to the floor.
- In interiors and exteriors.

Important

The data, recommendations and information given in this Technical Data Sheet are based on our current knowledge, laboratory tests and practical experience.

The consumptions are based on our own experience, so they are susceptible to variations depending on the application conditions and substrates to be used.

For further clarification, our Technical Service is at your disposal. Other applications of the product other than those indicated herein are not our responsibility.

Supports

- Concrete and cement mortars
- Brick partitions, stone...
- Absorbent substrates

Enforcement tips

- Application temperatures between 15 - 30°C
- Do not apply in permanent state of intense cold, since the product could lengthen its time of putting into service.
- It is not recommended the application of the product on paintings, and those old, easily friable supports that can detach with the application of the pavement.
- Do not apply on non-absorbent substrates.

Caucho. Sistema parques infantiles

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Performance conditions

- The supports must be healthy, stable and resistant, exempt of dust, plaster, paint...
- Eliminate the deteriorated parts and in state of degradation, until arriving at the solid, resistant and absorbent support.
- The paraments of powdery nature must be consolidated with **F-600**.
- On surfaces without absorption, very smooth or little absorbent, pickling and open pore to ensure a good adhesion.
- Avoid the application of the coating with low temperatures, low relative humidity, rain because it could lengthen the time of commissioning.

Usage way

First Elastic Base Coat:

Apply as a primer one pass with the chosen resin, at a rate of 0.15 kg/m². At the same time, in a planetary mixer, mix the **SBR Encapsulated Rubber chippings** with 10 - 20% (according to granulometry) of resin. Agitate for 5 minutes until all the **EPDM Rubber chippings** are wetted with the resin. Pour the resulting mass on the surface, spread with a trowel and compact by pressing the trowel in light 180° movements.

Second color coat:

After 7 h. of the first coat of Elastic Base, mix the **EPDM Rubber** granules of the desired color with 12-20% (according to granulometry) of **Aromatic** or **Aliphatic resin**. Shake for 6 minutes until all the chippings are wetted with the resin. Pour the resulting mass, spread and compact the same as the previous one.
Let dry 8-17 h according to the resin used (**Aromatic / Aliphatic**).

2 types of Binding Resin are available for the realization of Playgrounds.

	Aromatic resin	Alifatic resin
Stability of sunlight	Limited stability to sunlight	High stability to sunlight
Density	1.1 g/cm ³	1.1 g/cm ³
Appearance	Yellowish liquid	Transparent liquid

Change of tonality when agglomerating with

	YES	NO
EPDM Rubber white color	YES	NO
Drying 23 °C	8 H.	17 H.
Commissioning	4 h.	48 h.



Packing

SBR Rubber: 25 Kg bags.

Colored EPDM rubber: 25 Kg.

Aromatic and Aliphatic Resin: 5 and 25 Kg.

Color

SBR rubber: Black

EPDM rubber: Oxide red, bright red, oxide green, apple green, yellow, orange (other colors on demand).

Consumption

Consumption	Material	Kg/m ²
Primer	Alifatic resin	0.15
	Elastic base layer	25 mm.
	Black SBR rubber	20
	Alifatic resin	2
	Top Coat Color 10 mm	10
	Alifatic resin	1.2

Preservation

In sealed original packaging and protected from weather and humidity: 1 year

! IMPORTANT

The observations and prescriptions of this data sheet, although corresponding to our best experience, should be considered, in any case, purely indicative, and should be tested by exhaustive practical applications; therefore, before using the product, the user must establish whether or not it is suitable for the intended use, and assumes all liability that may arise from its use. Once the product has been handled or applied, the manufacturer shall not assume any claim whatsoever, nor any liability as to the manner, mode and conditions of application.