

Resina alifática

Aliphatic resin 100% solids



Description

Aliphatic resin is based on an aliphatic isocyanate prepolymer-polyurethane without volatile monomers TDI base. It is specifically designed to agglomerate rubber granules of different granulometries for the manufacture of sports flooring and systems for playgrounds with high outdoor resistance. Binder that cures by means of environmental humidity.

Observations

- The substrate must be clean, dry, free of oil and grease and with a roughness of 70 µm between ridges and valleys.
- Apply the pavement with environmental conditions of temperature 10-30°C and humidity 50%-80%.

Characteristics

- Dough life: ±45 min. (20°C)
- Workability: ±60 min.
- Minimum thickness: 10 mm
- Thickness per layer: 10-40 mm
- Drying,
 - At 20 °C and 90% relative humidity: >5 h.
 - At 20 °C and 40% relative humidity: >15 h.
 - At 20 °C total hardening: >5 days.
- Drying can be accelerated by using Polyurethane accelerator according to the table below.

% Accelerant Polyurethane

- Dry to touch at 20 °C

0,05%	>3,5 hours
0,10%	>2,5 hours

Specifications

- Appearance: Clear liquid
- Percentage of NCO: 7.0-9.0 % approx.
- Density: 1.1 g/cm3
- Viscosity approx.: 2.000-5.000 mPas* at T°=20° C
- Reactivity (23°C and 50% RH) 10:1 agglomeration by weight and 10 mm thickness: Approx. 15-17 h.
- Storage stability: 1 year
- The percentage of binder to agglomerate the rubber ranges between 10-20% depending on the size and color of the rubber granules.

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

Storage

- Store in a cool, dry place indoors.
- Avoid unnecessary opening of containers
- Once the container is opened, the resin starts to react and will form a light film on the surface.

**The containers must be used in their entirety, otherwise they will lose their initial performance over time.*

Enforcement tips

- Application temperatures between 10 - 25°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 to apply the product on paints, old plasters, easily friable substrates that can detach with the application of the pavement.
- Do not apply on non-absorbent substrates.

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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 Layer:

As a primer, apply one coat of **Aliphatic 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% of **Aliphatic resin**, stir for 5 minutes until all the 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.

Drying time: >8 h.

Second layer EPDM color,

After 8 hours of the first coat of **Elastic Base**, mix the **EPDM Rubber** chippings of the desired color with 12-20% of **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.

Allow to dry for 8-17 hours.

*Optional:

Colorless Extra-Protectant Seal Coating

Dilute the **aliphatic resin** with 40% of acetone solvent. Apply the resulting mixture on the surface to be sealed with a short haired roller.

Approximate consumption 0,12 Kg/m²

Associate products

- Resina Aromática
- Caucho SBR
- Caucho EPDM
- Disolvente acetona
- F-600



Packing

SBR rubber: 25 Kg. bag

EPDM Rubber: 25 Kg. bag

Aliphatic Resin: 25 Kg bag.

Color

Standard: colorless
(other colors on demand)

Consumption

Consumption	Material	Kg/m ²
Primer	Aliphatic resin	0.15
	Elastic base layer	25 mm.
	Black SBR Rubber	20
	Aliphatic Resin	2
	Top coat Color 10 mm	10
	Aliphatic resin	1.2

Preservation

In sealed original packaging (20 °C) 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.