PINTURAS SERRANO

Resitop®
Resinas acrílicas
para suelos deportivos
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RESITOP ROLLER SYSTEM TECHNICAL SHEET

(On asphalt base)

1. Definition

Multilayer coating on asphalt for skating rinks. In-line skating, speed circuits and recreational areas.

2. General characteristics

Coating that is 2 to 3 mm thick, continuous, in colours, waterproof, highly resistant to wear and the action of atmospheric agents in the most extreme climates. Its micro-roughness makes it ideal for playing sports safely both in the open air and inside

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3. Laying

The asphalt mixture to be coated should be dense, resistant and free of impurities and loose or foreign materials. It should have a suitable slope to allow rainwater to run off without leaving puddles deeper than the thickness of a one-euro coin. If necessary, imperfections such as cracks or puddles should be repaired before proceeding to apply the sealing and finishing layers.

Always apply in good weather with no risk of rain and temperatures above 10 degrees Celsius.

4. System Components

The system consists of the successive application of several products that are complementary to each other.

The first product that is applied is the TOPSEAL. This is a mortar that is used to seal and regularise the asphalt mixture and is composed of synthetic resins and selected fine sands. It is available in 25 kg cans, mixed on site with water and applied with a rubber rake at a rate of 2.0 kg/m2.

Then, once the TOPSEAL layer is dry and conditioned, a layer of RESURFACER is applied with a rubber rake at a rate of 0.9 - 1.0 Kg/m2. This product is concentrated in drums with 18 Kg to mix on site with silica sands and water (0.4 of RESURFACER + 0.6 of sand) or in a RESURFACER PREMIX version in drums with 25 Kg that holds the incorporated sand and just needs to be mixed on site with water for it to be applied correctly.

Once the surface has been conditioned, the topcoats are applied in colour, consisting of two layers of PREMIX at a rate of 0.450 Kg/m2 each and two layers of sealing and final finish with CONCENTRATE at a rate of 0.250 Kg/m2 each.

The PREMIX is a mixture based on acrylic resins and sands and the CONCENTRATE is a paint that also has the same nature. These are both highly pigmented products, which are available in doses of 25 kg and 20 kg respectively.

5. Marking

Once the lines of play have been reconsidered, place the adhesive paper tape and seal it with the transparent PERFILATOR product. Once dry, this layer is painted between the tapes with the PINTALINE paint.

6. Technical features of finished coating

Approximate thickness..... .2 to 3 mm

Abrasion resistance Taber EN ISO 5470-1:2017

Rubbing against H-18 grinding wheels – 1000 cycles..... 1.66 g

After 5200 hours of UV aging

Rubbing against H-18 grinding wheels – 1000 cycles..... 2.19 g

Tensile adhesion UNE-EN ISO 4624

Adhesion to concrete (Mpa).....> 1.0

Friction test (Slipperyness)

UNE-EN 14877 criterion (55 to 110)

Dry..... 96 (UNE-EN 13036-4)

Wet..... 68 (UNE-EN 13036-4)

UNE 41901:2017 EX Criterion - Pedestrian Traffic Surfaces

Wet... Rd 68 (Rd >45) CLASS 3 Non-slip

Determination of weather resistance EN 14836:2021

After 5,200 hours of exposure - score 4-5 good - very good

Reaction to Fire Classification UNE-EN 13501-1:2007 + A1:2009

Classification Bf1 - S1

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7. General observations

The application of the products that make up the system must be carried out by specialised personnel. A bad application due to lack of equipment or installing it in adverse conditions can lead to premature ageing.

The drying and polymerisation of the resins should be done in dry weather and always above +10 degrees Celsius.

The commissioning is done within fifteen days after the application of the last layer. Consequently, we achieve the total polymerisation of the resins in all its layers.

For the colour to be added to the rink, this must always be done at a distance of 10m and with the sun at your back. The entire surface must have a uniform colour.

The water retained on the rink should never exceed the thickness of a one-euro coin.

8. Conservation and maintenance

- Sweep or blow the track once a month and prevent the entry of loose sand that may contribute to abrasion due to accelerated wear of the coating
- Given the flexibility of the surface, it is sensitive to strong point loads, so they must be avoided or placed on appropriate distribution plates.
- Depending on the intensity in the use of the surface, the coating will suffer natural wear. A timely replacement of the finishing layers will prevent major damage and consequently savings in subsequent repair costs
- In conditions of medium intensity of use, with a favourable climate and a good degree of maintenance, it should not have to be recoated until after five years

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