

## W45 – PAVINEUCE BIO

### Antibacterial paint for pavements

**DESCRIPTION:**

Paint with active ingredients that confer antibacterial protection on pavements, being effective through the whole film's lifetime. The formulation is based on hydroxy acrylic resins and aliphatic isocyanates, with pigments and fillers of excellent quality. Additionally, this product has good mechanical and chemical resistance features, being able to be used in a wide field of applications. Nevertheless, it is recommended to be applied on concrete pavements.

**FEATURES:**

- It inhibits the bacterial growth (up to 99.99%), including pathogenic bacteria (antibacterial assays were performed by independent laboratories following ISO 22196 / JIS Z 2801:2000) <sup>a)</sup>.
- It inactivates the deposited bacteria within 48 hours after the application.
- Long lasting antibacterial properties. This effect remains unaltered throughout the paint film's lifespan.
- The active ingredient does not leach or wash out.
- Good adhesion.
- Good mechanical and chemical resistance.
- Good durability.

**SPECIFICATIONS:**

- **Density**.....1.220 ± 0.10
- **Viscosity**.....500 ± 100 cP
- **Color**.....White and light colors.
- **Finishing**.....Gloss, satin and matt.
- **Drying**
  - Transittable**..... 1-2 days
  - Light loads**.....3-4 days
  - No restrictions**.....7-8 days
- **VOC (volatile organic compounds)**..<sup>b)</sup> EU limit value set for this product cat. (A/J) 500 g/L (2010). This product contains a maximum of 500 g/L VOC.

**RECOMMENDED USE:**

This product is mainly used for cement pavements with antibacterial function, providing an exceptional finishing, with an remarkable mechanical resistance.

**SURFACE  
PREPARATION:**

The concrete surfaces must be clean, dry (the floor humidity should not be more than 4%), without any friable particles.  
A coat of Neucefloor Sealer 110 EP should be previously applied as a primer.

**MIXTURE  
PREPARATION:**

**PAVINEUCE BIO** is composed with two components: “BASE” and the “HARDENER” must have to be properly mixed minutes before the application, in the following proportions:

**MIXTURE PROPORTION (4:1):**

VARNISH BASE.....4 Parts (volume)  
HARDENER.....1 Part (volume)

As long as these proportions are followed, the product will have a good performance.  
After being mixed, properly dilute the mixture, then let it rest for ± 10 minutes and finally start the application.

**MIXTURE LIFETIME:**

After being mixed the two components, those start to gellify, getting hard after ± 6 hours.  
In order to avoid product losses, it should be only prepared the necessary amount of mixture that correspond to 2 hours of work.

**APPLICATION:**

The product must be properly homogenized before being applied.  
The application should be performed with a roller or a spray-gun, with at least 2 coats, properly diluted, with a resting time from 12 to 24 hours between applications.  
The pavement can only be stepped after 24 to 48 hours of last coat’s application.  
The curing time of the material is influenced by temperature, the material and the substrate.  
At low temperatures, the chemical reactions’ rate will be slower, thus. the workability time will be longer. While, at higher temperatures, the chemical reaction rates will be faster, limiting the deadlines.

Minimum Workable Temperature: 10°C  
Maximum Workable Temperature: 30°C

The temperature of the substrate must be at least 3 °C above the dew point to avoid condensation during application, drying and curing of the product.

Maximum relative humidity: 75%

It is important to keep the surfaces clean to ensure the film’s antimicrobial activity. Dirt deposited over time (eg grease) leads to the formation of films that allow the microorganisms to grow over them, restraining paint’s antimicrobial activity.

**DILUTION:** With “POLYURETHANE DILUENT” in the following proportions:

1<sup>st</sup> coat .....10 to 15%  
Remaining coats.....Up to 5%

**COVERAGE YIELD:** On average, from 7 to 9 m<sup>2</sup>/L, per coat, depending on the concrete’s porosity.

**MATERIALS’ CLEAN-UP:** With “POLYURETHANE DILUENT” or “CELLULOSE DILUENT”, right after the application.

**PRECAUTIONS:** When applying, it must be taken measures to ensure good ventilation of the working environment.  
It is advisable to wear work clothes, gloves and goggles as the product may cause irritation to the skin.  
Keep out of reach of children.  
For further information, the reading of our product **Safety Data Sheet** is essential.

**STORAGE AND PACKAGING:** Packages should be kept properly closed, in controlled conditions of temperature and humidity.  
The product should be spent on a chronological order of supply. Use it, with preference, up to 1 year after its manufacturing date, but it can also be used after this date, as long as a good homogenization of the product is verified.  
It is supplied in cans of 1, 4 and 20 liters.

Note: a) The evaluation of the antimicrobial performance was conducted by independent laboratories accordingly to the ISO 22196 / JIS Z 2801:2000. The outcomes revealed resistance of the paint against the most common pathogenic bacteria including Methicillin Resistant *Staphylococcus aureus* (MRSA), *Legionella pneumophila*, *Salmonella typhimurium*, *Escherichia coli* and *Aspergillus niger*. b) The value of the VOC previously mentioned concerns ready-to-use products, according to the technical specifications that we recommend. We do not take any responsibility for other mixtures made to the product. We draw special attention to all our agents for the responsibility that they take by not respecting what the Directive 2004/42/CE establishes.