

Sheet:

Cod.7035

# ***PAVIFER-500***

**Water-based aliphatic polyurethane paint with high solids content and resistance to scratches and abrasion Indoor-Outdoor**

- Indoor and outdoor car parks
- Industrial buildings
- Surfaces exposed to UV rays.



## Sheet

### PAVIFER-400

Edition: January 2022

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## PRODUCT DESCRIPTION

**PAVIFER-500** is a two-component, water-based, aliphatic polyurethane paint.

It provides a protective and decorative finish on interior or exterior concrete flooring in industries, workshops, car parks, etc.

## RECOMMENDED USES

**PAVIFER-500** is indicated as a protective and decorative finish for interior and exterior concrete floors, cement mortars and colored sealing for concrete, cementitious base coats, aggregate sprinkled coats and epoxy mortars.

Especially suitable outdoors or indoors for concrete floors and hard-to-grip surfaces. In all those places where protection against scratches, abrasions and splashes of chemical products is required without having to use solvent paints

- Garages, workshops
- Industrial buildings
- Warehouses & Factories
- Workshops and car parks
- Industry in general.

## FEATURES & BENEFITS

It eliminates the formation of soil dust, improves its surface hardness, prevents erosion and wear, making it easier to clean and making the floor more decorative. The main features and advantages of the **Pavifer-500** are:

- Compatible finish for epoxy systems
- High gloss and colour retention
- Uniform and decorative finish
- High chemical resistance
- Finish for thin-set, self-leveling or multi-layer systems
- Easy application (brush or roller)

## PRESENTATION

**Pavifer-410** comes in 9 kg and 4.5 kg metal kit containers.

Component A (Base):	7.5Kg / 3.75kg
Component B (Catalyst):	1.5 Kg /075kg

Colour: according to Carta Ral

## STORAGE CONDITIONS

12 meses Desde su fecha de fabricación, en sus envases de origen bien cerrados y no deteriorados, en un lugar seco a temperaturas comprendidas entre +5° C y +30°

12 months from the date of manufacture, in its well-closed and non-deteriorated containers of origin, in a dry place at temperatures between +5° C and +30°

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## TECHNICAL DATA

Chemical Basis	Aliphatic polyurethane prepolymers
Aspect:	Bright
Colour:	Ral card
Solid Volume:	42%
Yield:	4 to 6 m <sup>2</sup> / kilos
Brookfield Viscosity:	230 cps.
Dry to the touch:	1 hour at 20° C and 60% relative humidity
Commissioning:	24 hours people 48 hours light vehicles 7 days full use
Chemical Resistance	Excellent
VOC's:	Complies with Directive 2004/42/EC (RD 22/2006) Annex I subcategory j): 304.8 g/l (500 g/l maximum as of 01.01.2010).

## PRODUCT PREPARATION

- Mix the two components using a low-speed stirrer.
- If the application is made at high temperatures, the life of the mixture can be significantly reduced.
- Drying and hardening time will depend on the ambient temperature and humidity during the application.
- If a rough finish with anti-slip properties is desired, sprinkle the first layer with fine silica sand.
- For the treatment of non-concrete pavements, please consult our Technical Department
- Preserve the container from frost and direct sun exposure before mixing, shake component A in its container and then add component B mixing for 2 to 3 minutes until the resulting product is completely homogeneous.
- To ensure correct mixing, pour into an empty container and continue kneading until homogenized. Avoid overmixing to minimize the amount of occluded air.

## CONDITIONS OF APPLICATION

Car parks, warehouses, industrial warehouses and in general all types of floors. For EXTERIOR or INTERIOR applications. Stable color without yellowing due to its aliphatic nature.

The **PAVIFER-500** brings exceptional features. The lack of solvents, its self-levelling Newtonian behaviour and its 100% fixed matter content, means the absence of working joints, lifts and roller marks, giving rise to finishes that have a real "lacquered" appearance. Its hardness is very high, which, together with a certain flexibility, provides enormous resistance to abrasion and does not produce tire tracks. It is odorless, non-flammable, and non-toxic during or after application. Although the m<sup>2</sup> endowment is very small, its low density and its 100% solids leave 50 microns per layer of 60 gr., this also makes it economical due to its very high yields.

Withstands household stains of red wine, oil, ketchup, berries, mustard, coffee, alcohol, bleach, sulfuman. By adding micronized ceramics, SLIPPERY INDEXES classes 1, 2, 3 are perfectly achieved.

Micronized ceramics can also be added, achieving anti-wear-anti-scratch finishes (consult our technical department).

Apply to perfectly clean and dry substrates, free of dust. Some mechanical pre-treatment and/or the pre-application of a primer may be required.

### STEEL:

Abrasive blasting to ISO 8501.1 grade Sa 2 1/2 with a roughness equivalent to BN10a of Rugotest No. 3.

Primer: Apply one coat of epoxy zinc phosphate primer, let dry for 24 hours at 20° C. Apply two

Finish: coats of **PAVIFER-500** and let dry for 24 hours between coats.

## APPLICATION DETAILS

Quality of support	The concrete substrate must be compact and have minimum compressive strengths of 25 N/mm <sup>2</sup> and tensile strength of 1.5 N/mm <sup>2</sup> . The substrate must be clean, dry and free of all types of contaminants, such as oils, greases, coatings and surface treatments, etc. When in doubt, apply a test area.
Preparing the Stand	Concrete substrates must be prepared by mechanical means (sanding, shot blasting, or scarifying) in order to remove surface grout and obtain an open-pore, textured surface. The weak parts of the concrete must be eliminated and all possible defects in the substrate must be discovered. Support repairs, hollow filling, and bracket leveling are all with appropriate products. The substrate must be primed or leveled to obtain a compact surface. Large stains should be removed by sanding. All dirt as well as loose or poorly adhered parts should be removed before application, preferably by sweeping or vacuuming.
Substrate Temperature	Minimum + 10 °C / Maximum + 30 °C
Ambient Temperature	Minimum + 10 °C / Maximum + 30 °C
Substrate humidity	≤ 6% by weight Measured with method, CM gauge or kiln drying method. There should be no rising damp according to the ASTM standard (polyethylene sheet).
Relative humidity	Maximum 75% r.h. Proper ventilation should be ensured to remove excess moisture during curing.
Dew point	Watch out for condensation! The substrate and ambient temperature should be at least 3°C above the Dew Point during application.

## CURING DETAILS

Ready-to-Use Applied Product	From 24 hours min to 7 days. Times are approximate and may be affected by environmental conditions, especially temperature and relative humidity.
Note	All technical data given in this Product Data sheet are based on laboratory tests. Actual measurements of this data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the operation of this product may vary from country to country. Please refer to the Local Data Sheet for the exact description of the fields of application.
Health & Safety Instructions	For any information regarding safety issues in the use, handling, storage and disposal of chemical residues, users should refer to the most recent version of the Product Safety Data Sheet, which contains physical, ecological, toxicological and other related data related to the use of chemical residues. safety.

## LEGAL NOTICES

This information and, in particular, the recommendations regarding the application and end use of the product, are given in good faith, based on the current knowledge and experience of POLIUREA SISTEMAS of the products when they are correctly stored, handled and applied, in normal situations, within their useful life, in accordance with the recommendations of POLIUREA SISTEMAS. In practice, the possible differences in materials, substrates and actual conditions at the place of application are such that no warranty in terms of merchantability or fitness for particular purposes, nor any obligation whatsoever outside of any legal relationship that may exist, can be inferred from the information herein, nor from any other written advice or advice offered. The user of the products must carry out the tests to check their suitability according to the intended use. POLIUREA SISTEMAS reserves the right to change the properties of its products. The property rights of third parties must be respected. All orders are accepted in accordance with the terms of our current General Terms and Conditions of Sale and Supply. Users should be aware of and use the latest and most up-to-date version of the Product Data Sheets copies of which will be sent to anyone who requests them, or can also be obtained on the website.

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