



Roka Floor PU 500

Three Component, Polyurethane Based Coating for Aggressive Environment

Roka Floor PU 500 is a three-component, polyurethane based, solvent free, high build system with excellent chemical and very good abrasion resistance properties.

Uses & Advantages:

- Easy application.
- Economical.
- Easy to clean & sterilize.
- Resistant to several organic and inorganic acids, alkalis, amines, salts and solvents.
- Excellent long term wear resistance.
- Temperature resistance up to 80°C.

Fields of Application:

As a standalone high build coating or as a seal coat of covings in:

- Pharmaceutical plants.
- Food processing plants
- Chemical Process areas.
- Workshops.
- Warehouses.



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Technical Information:

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| Chemical Base | Polyurethane, Cement & Special Aggregates |
| Mixed Density | 1.2±0.05 |
| Coverage | 0.50 – 0.60 kg/m ² at 500 microns |
| Ambient Temperature | 5 to 30°C |
| Pot Life | ~10 – 15 minutes at 30°C |
| Light Traffic | 18 hours at 30°C |
| Full Traffic | 24 hours at 30°C |
| Full Cure | 7 days |
| Tensile Modulus | 1350 MPa |
| Flexural Strength | ~10 MPa |
| Bond Strength | >1.75 MPa (7 days) |
| Shore D Hardness | 70 - 80 |
| Impact Resistance | Class A |
| Abrasion Resistance | Class “special” severe abrasion resistance |
| Chemical Resistance | Excellent resistance to sugars & acids |
| Water Absorption | 0.10% |
| Temperature Resistance as standalone coating | -10°C to +80°C |



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| Temperature Resistance when applied on to Roka Floor PU 900 (9mm thickness) | -40°C to +120°C for recommended open time |
| Packaging | 10 kg kits |
| Shelf life | 6 months if kept in original unopened packing between 10 °C - 30 °C |

Surface Preparation:

Before the application, the surface must be sound, dry, clean and free from any foreign contaminants like oil, grease and laitance etc. The recommended method for surface preparation is short blasting or surface dry grinding 20 to 40 grits. Substrate temperature should be + 10°C to + 25°C at the time of application.

Prior to application Roka Floor PU 500 should be stored under cover in an air-conditioned environment and protected from extremes of temperature which may cause inconsistent workability, finish and cure times for the mixed material.

Mixing:

Pour the reactor into the base and mix the components thoroughly for a minute using a suitable drill and paddle. Keep the mixer running and slowly add the filler and mix for 2 minutes or until a smooth mixture, free of any lumps has been achieved.

Always keep the mixing time the same for all batches, to ensure a uniform color when the product is applied. Mix only enough material which can be handled within its pot life to avoid material wastage.



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Application:

Apply a scratch coat of Roka Floor PU 500 or Roka Primer EP-1 to the prepared surface. Pour the mixed material onto the surface and spread using a squeegee and the using short fiber roller/brush to achieve desired finish.

Cleaning:

Clean all the tools and equipment immediately after use with Roka Thinner or Roka Xylene. Hardened material can only be removed mechanically.

Health and Safety:

Use of protective clothing, safety goggles, gloves and is recommended while handling Roka Floor PU 500. Avoid contact with skin and avoid vapors or mist inhalation. In case of any contact with skin, immediately wash with water. Any splashes in eyes should be cleaned with plenty of clean water and seek medical assistance immediately.

Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and



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development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

All products are sold under our standard conditions of sale, which are available upon request. Any field services offered do not imply supervisory responsibility. For further information, please contact your local representative of Roka Chem Solutions.