# Polyurethane Coating PU 313

EN 1504-2


> static crack-bridging
> elastic at low temperatures
> OS 13 system-certified

## Product description

Highly elastic, self-leveling, crack-bridging (static), two-component polyurethane-based reactive resin.
Designed for the production of certified parking deck systems.

**Delivery format**

| Container | Outer packaging | Pallet |
|---|---|---|
| 22.5 KG / BHO | - | 16 BHO |
| 5 KG / BLE | - | 80 BLE |

**Storage**
Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 365 days

## Processing

**Recommended tools**
Slow-speed electric stirrer, suitable mixing container, smoothing trowel, spatula, microfibre paint roller, hand or blade squeegee, rubber broom, spiked roller for deaeration.

**Mixing**
Components A and B are delivered in the correct mixing ratio. For partial quantities, use a scale. Stir Component A thoroughly with a slow-speed electric stirrer (approx. 300 rpm), then add to Component B and continue mixing for approx. 2–3 minutes until a homogeneous, streak-free consistency is achieved.
To avoid mixing or ratio errors, transfer the mixed material into a clean, dry container (re-pot) and stir again thoroughly.

**Processing**
Pour onto the primed/leveled substrate in sections and spread evenly using the recommended tools. For use as a broadcast layer in parking deck systems, mix with quartz sand and, while still fresh, broadcast with excess quartz sand.



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## Technical data

| | |
|---|---|
| Chemical base | Polyurethane |
| Density | approx. 1.45 kg/l (mixture A+B) |
| Viscosity | approx. 2000 mPa s |
| Consumption | depending on system: approx. 1450 g/m² |
| Mixing ratio | 4.5 : 1 (by weight) |
| Layer thickness | min. 2.5 mm hwO for OS 13 |
| mechanically load-bearing | after 3 days |
| chemically load-bearing | after 7 days |
| Shore D hardness | approx. 60 |

## Substrate

**Suitable substrates**

Requirements for mineral substrates:
The substrate must meet the criteria of the IBF guideline – Industrial Floors Made of Reactive Resins – dry, load-bearing, and free from any separating substances (either inherent or external).
Residual moisture: max. 4% by weight (measured with a CM device).
Substrate temperature must be above 12 °C and at least 3 K above the dew point.
Tensile adhesion strength: average 1.5 N/mm², minimum individual value 1.1 N/mm².

## Product and processing instructions

Material instructions:
- The material properties may change significantly when working outside the ideal temperature and/or humidity range.
- Bring materials to the correct temperature before processing!
- To retain the product properties, no foreign materials may be added!
- Water addition amounts and dilution instructions must be precisely adhered to!
- Test tinted products for colour accuracy before use!
- Colour consistency can only be guaranteed within an individual batch.
- The colour formation is significantly influenced by environmental conditions.
- Open the container carefully and stir the product well!
- Weighing scales must be used for the mixing of partial quantities!
- After mixing, process reaction resins as quickly as possible.
- Water-based systems can only be preserved to a limited extent after dilution with water; We therefore recommend processing as quickly as possible.
- In the case of water-based systems, the amount of water specified by the manufacturer may only be added after mixing components A and B.
- Always allow primers to dry/harden.
- Monitor the odour of solvent-based systems.
- Applied reaction resins can be walked on at a constant temperature of +20°C after 1 day, after 3 days they are mechanically resistant, and after 7 days they are chemically resistant.
- UV exposure and exposure to certain chemicals may cause discolouration or yellowing on the surface, but this does not affect the functionality and performance of the coating.
- Unused, already mixed residual quantities must be mixed with quartzite sand (smoke development).

Environmental information:
- Do not process at temperatures below +5°C!
- The ideal temperature range for the material, substrate and air is + 15 °C to + 25 °C.
- The ideal relative humidity range is between 40% to 60%.
- Increased air humidity and/or lower temperatures may prolong the drying, setting, and hardening time, while lower air humidity and/or higher temperatures will speed it up.
- Provide sufficient ventilation during the drying, reaction and hardening phases; Avoid draughts!



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- Protect from direct sunlight, wind and weather!
- Protect adjoining components!
- The substrate temperature must be at least 3 K above the dew point.
(Based on the prevailing relative humidity and the air temperature, the respective dew point temperature can be determined by means of a dew point table.)
- Protect against contamination (dust, insects, leaves, etc.) during the reaction phase!
- If the 48-hour time window is exceeded between the individual work steps, an intermediate sanding must be carried out!
- In UV-exposed areas we recommend systems that are resistant to yellowing.

Tips:
- We recommend using a test surface first or a small area for initial, small-scale testing.
- Observe the product data sheets of all MUREXIN products used in the system. - Keep a genuine original container of the respective batch for later repair work.
- To avoid projections and visible transitions of several working paths, these must be processed offset for longer lengths!
- Abrasive, scratching mechanical loads lead to wear marks.
- Plasticisers from car tyres can lead to discolouration.

The information provided reflects average values obtained under laboratory conditions. Due to the use of natural raw materials, the indicated values of individual deliveries may vary slightly without impacting the product suitability.

## Safety instructions

This leaflet is based on extensive experience, is intended to convey the best of our knowledge, is not legally binding and does neither constitute a contractual legal relationship nor a subsidiary obligation resulting from the bill of sale. The quality of our materials is guaranteed within the framework of our general terms and conditions. Our products may be used by professionals and/or experienced and accordingly technically skilled persons only. Users are not released from inquiring in case of uncertainties or from rendering professional workmanship. We recommend using a test surface first or a small area for initial, small-scale testing. Naturally, it is not possible to describe or foresee all possible current and future uses and peculiarities. Information that is assumed to be familiar to experts has been omitted.
Please observe the current, technical, national and European standards, guidelines and data sheets regarding materials, substrates and the subsequent construction. Please contact us if you have any reservations or doubt.
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