Polyurethane Sealant PU 240

EN 1504-2

> UV-resistant to yellowing
> semi-gloss
> plasticizer-resistant
> chlorine-resistant
> viscoelastic

Product description

Solvent-free, silk gloss, two-component, largely non-yellowing and weather-resistant seal based on polyurethane resin. Transparent for surface areas with light to medium load. Indoors and outdoors for walkable and drivable seals, reaction resin coatings and reaction resin-bonded natural stone pavings.

Delivery format

Container	Outer packaging	Pallet
6.66 KG / BLE	-	42 BLE
3.34 KG / BLE	-	99 BLE

Storage
Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 180 days

Processing

Recommended tools
slow-running electric agitator, suitable mixing vessel, micro paint roller, scraper grid

Mixing
Component A and component B are always supplied in the correct mixing ratio. A scale should be used to determine partial quantities. Stir component A thoroughly by means of a slower-rotating electric mixer (approx. 300 rpm), then add component B and continue mixing until a homogeneous, streak-free consistency is achieved (approx. 2-3 minutes).
To prevent mixing and/or proportioning mistakes, the mixed material must be decanted into a clean, dry container (repotted) and stirred thoroughly again.

Processing
The mixed product is applied using a suitable tool. Roll cross-wise.

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Technical data

Chemical base	polyurethane
Density	approx. 1.15 g/cm³
Solid content	100%
Viscosity	approx. 100 - 200 mPas
Colour	transparent
Gloss	silk gloss
Consumption	200 - 400 g/m²
Mixing ratio	Comp. A : Comp. B = 2:1
Skin forming time	approx. 4 hrs at 20°C
Accessibility for the next work step	approx. 12 hrs at 20°C

Substrate

Suitable substrates

Requirements for mineral substrates:

The substrate must be dry, load-bearing and free from separating, inherent or foreign substances in accordance with the requirements of the IBF Guideline - Industrial Floors made of Reactive Resin. Residual moisture max. 4 wt. %, measured with the CM device. Substrate temperature greater than 12 °C and 3 K above dew point; average adhesive tensile strength 1.5 N/mm²; smallest individual value 1.1 N/mm²

Product and processing instructions

Material information:
- If processing outside the ideal temperature and/or humidity range the material properties could change markedly.
- Bring the materials to the proper temperature before processing!
- In order to maintain the product properties, do not add any foreign materials!
- Water dosing quantities or dilution information must be strictly adhered to!
- Check tinted products for colour accuracy before application!
- Colour consistency can only be guaranteed within the same batch.
- The colour formation is significantly impacted by the environmental conditions.
- Carefully open the container and shake the product well!
- Use a scale to mix partial quantities!
- Reactive resins are to be processed as quickly as possible after mixing.
- Water-based systems have only a limited shelf life after dilution with water, which is why quick processing is recommended.
- With water-based systems, the water quantity specified by the manufacturer may only be added after stirring components A and B.
- Always allow primer to dry/harden well.
- Observe the odours caused by solvent-based systems.
- At a constant temperature of + 20 °C, applied reactive resins can be walked on after 1 day, are mechanically resistant after 3 days and chemically resistant after 7 days.
- With UV loads and the influence of certain chemicals, the surface can discolour or yellow, which does not impair the functionality and usability of the coating.
- The shade designations listed (RAL, NCS,...) are to be understood as shade descriptions without guaranteed matching of the original shade chart.
- If you are using different products (on the same object), colour consistency can not be guaranteed even if the colours have the same designation.
- Note that the colour will change when adding quartz sand, thixotropic agents, suspending agents or similar!
- Residual quantities which are not needed and which have already been mixed must be mixed with quartz sand (smoke generation).
- Due to the moisture sensitivity of reactive resins, it is absolutely essential that only completely dry fillers — such as quartz sand, marble gravel, silicon carbide, etc. — are used.

Environmental information:
- Do not process at temperatures below +5 °C!

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- The ideal temperature range for the material, substrate and air is + 15 °C to + 25 °C.
- The ideal relative humidity range is 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 temper atures will speed it up.
- Ensure adequate ventilation during the drying, reaction and hardening phase; avoid draughts!
- Protect against direct sunlight, wind and weather!
- Protect adjacent components!
- The substrate temperature must be at least 3 K above the dew point.
(The corresponding dew point temperature can be determined via the prevailing relative air humidity and the air temperature from a dew point table.)
- Protect against contaminants (dust, insects, foliage etc.) during the reaction phase!
- If the time window of 48 hours is exceeded between the individual work steps, intermediate sanding is required!
- We recommend systems which are resistant to yellowing in areas exposed to UV.
- The substrate must be prepared by means of a suitable mechanical process.

Tips:
- We recommend using a test surface first or a small area for initial, small-scale testing.
- Please heed the product data sheets of all MUREXIN products used in the process.
- Keep a genuine original container of the respective batch for later repair work.
- To avoid sediments and visible transitions between work tracks, these are to be processed offset for longer lengths!
- Abrasive, scraping mechanical loads cause wear marks.
- Contact with vehicle tyres or other plastics which contain plasticiser can lead to discolourations, impressions or softening of the surface.
- For defined structures in terms of anti-slip classes, fire classes and decorative surface designs, please refer to the "Service" area on www.murexin.com
- To minimise the formation of increased temperatures, odour and smoke with mixed residual quantities that are no longer needed, we recommend mixing them with quartz sand in good time!

The information provided reflects average values that were 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.
This version is rendered invalid if a new version is released. The most recent data sheets, safety data sheets and the terms and conditions are available online at www.murexin.com.

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