SPECIAL SEAL WD-1K

> Food-safe
> Can be applied to matt damp substrates
> Can be used vertically and horizontally
> For indoor and outdoor use
> Liquid sealant for roofs and structures

Product description

High-quality, flexible, single-component, ready-to-use, plasticizer-, solvent-, silicone- and isocyanate-free, permanently elastic and weatherproof, sealant tested for roofs and buildings for all indoor and outdoor sealing work and compatible with various types of surface materials, such as natural stone carpets, ceramic coverings, mineral flow mortars, etc.

Universally applicable waterproofing for both indoors and outdoors on mineral substrates, on absorbent and matt damp absorbent substrates, as well as on numerous non-absorbent substrates. Moisture barrier for various horizontal and vertical floor and wall areas, such as flat and pitched roofs, terraces, balconies or pergolas, bathrooms, commercial kitchens as well as technical rooms, evaporation channels and lift shafts. Windproof sealant for blower door tests in low-energy and passive homes at connection points, such as window and door soffits and various pipe penetrations.

Can be used as a seal in submerged areas such as swimming pools, decorative fountains, water fountains, cisterns, pump sumps, etc., in conjunction with the special seal WD Top+ as additional surface protection.

Delivery format

Container	Outer packaging	Pallet
13 KG / KE	-	36 KE

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

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Processing

Recommended tools
Roller, brush, airless application.
Clean tools with Murexin acetone after use.
Processing
The product is a single component and is therefore ready-to-use. Do not stir before use. For processing, the WD-1K special seal must be applied over the entire surface with a tool suitable for the application. Depending on temperature and humidity, the pot life is approx. 30 - 40 minutes.

The sealing membrane is produced with fleece reinforcement in accordance with standards. Following the application of any necessary adhesion promoters, special seal WD-1K is applied with an application tool suitable for the respective application. The consumption of the material is approx. 1.8 kg/m².
Murexin needle fleece NV 110 is embedded in the freshly applied special seal WD-1K, without bubbles or creases, and then covered with special seal WD-1K so that the fleece is no longer visible and no area on the surface is matt in appearance. Approx. 0.9 kg/m² is consumed to cover the fleece layer.

Internal or external corners are formed with Murexin NV 110 VI and Murexin NV 110 VA.

The individual fleece panels or the connections to other fleece mouldings should overlap by at least 5 cm.
Connections to other materials must always overlap by at least 10 cm.

Processing over special seal WD-1K
a) Before sealing work can be continued, special seal WD-1K is cleaned with Murexin acetone after each instance of rain or in the event of soiling.

b) When processing over special seal WD-1K more than 21 days after the previous application of the sealant, the following work steps must be observed:
- Clean the surface or connection area with Murexin acetone
- The solvent must be left to dry for at least 20 minutes at 20 °C before subsequent work is carried out
- Application of the film-forming and covering WD Top+ special sealant
- After the WD Top+ special sealant has dried, special seal WD-1K can be applied

c) When processing over special seal WD-1K with surfaces that are to be bonded, e.g. tile coverings or coatings, an additional layer of special seal WD-1K at approx. 1 kg/m² is to be applied as a scatter layer after the surfaces are walkable. This layer is sanded in excess with fire-dried quartz sand 0.6 - 1.2 mm when fresh. Before any bonding or coating work is performed, the excess quartz sand must be removed.

d) If top coverings are to be applied more than 21 days after the initial application of the special seal, the surface to be processed over must first be cleaned with acetone and an adhesion-promoting layer created with the WD Top+ special seal.

Both the seal and any wear layer must be protected from increased mechanical and chemical stress until they have hardened completely.

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Technical data

Chemical base	silane-modified polymer
Density	1.34 g/cm³
µ value	521
sD value	1.042 metres with a layer thickness of 2 mm
Colour	white/light grey/dark grey
Consumption	2.7 kg/m² at a layer thickness of 2 mm
Layer thickness	between 1.8 and 2.4 mm, depending on requirements
rainproof	approx. 30 minutes (20°C/50% RLF) after application
Open time	approx. 30 minutes (20 °C/50% RLF)
Drying time	approx. 5 hours
Recoatability	after approx. 8 hours
Can be walked on	after approx. 6 hours (20 °C/50% RLF)
Certificates/test reports/class achieved	ETA according to EAD 030350-00-0402; approval according to food law; hail test; rhizome and root resistance test according to EN 13948
Shore D hardness	45 (28 d)
Object and material processing temperature	0-40 °C
Permissible relative air humidity	99%
Rainproof	immediately after application
Fire behaviour according to EN 13501-1	Class E
Useful life	W3
Climate zones	M and S
Imposed loads	P1 to P4

Test certificates

Tested in accordance with (standard, classification ...)
EC1ETA according to EAD 030350-00-0402; approval according to food law; hail resistance HW 7; root resistance according to EN 13948; GEV EMICODE EC1 Plus.

Substrate

Suitable substrates
The substrate must be load-bearing and free of separating, intrinsic and foreign substances or other substances normally found on building sites that have a negative effect on allowing a sufficient adhesive bond.

Ridges or sharp-edged bumps should be removed before applying the sealing resin. Defects such as depressions, masonry joints, mortar pockets, gravel pockets or even deeper breakouts and cavities in the substrate should be filled, levelled or reprofiled beforehand with Murexin mortars.
The substrate pre-treatment takes place via suitable mechanical processes. Non-absorbent substrates are to be cleaned with Murexin acetone.

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Product and processing instructions

Material instructions:
- When working outside the ideal temperature and/or humidity range the material properties may change significantly.
- Bring materials to correct temperature before processing!
- To retain the product properties, no foreign materials may be mixed in!

Environmental information:
- Do not process at temperatures below + 5°C!
- The ideal temperature range for material, substrate and air is +15°C to +25°C.
- The ideal relative air humidity range is between 40 % to 60 %.
- Increased humidity and/or lower temperatures delay, lower air humidity and/or higher temperatures accelerate drying, setting and hardening.
- Ensure sufficient ventilation, especially indoors, during the drying, reaction and hardening phase.
- Protect adjacent components!

Tips:
- We highly 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.

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

Please refer to the safety data sheet for product-specific information with regard to composition, handling, cleaning, appropriate measures and disposal.

Limiting and monitoring exposure
Personal protective equipment:
General protection and hygiene measures:
- Keep away from foodstuffs, beverages, and feedstuffs.
- Take dirty, soaked clothing off immediately.
- Wash your hands before breaks and after finishing work.

Respiratory protection: Not required with good room ventilation.
Hand protection: Protective gloves.
Glove material
- The selection of a suitable glove depends not only on the material, but also on other quality properties, which may vary from manufacturer to manufacturer. As the product is a preparation made up of many materials, the resistance of glove materials cannot be predicted in advance and must, therefore, be checked before use.

Penetration time of the glove material
- The precise penetration time must be ascertained from the glove manufacturer and it must be observed.

Eye protection: Protective goggles recommended during decanting.
Body protection: Wear protective clothing.

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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