



ARDEX S 2-K PU

Highly resistant sealing compound

- Highly durable waterproofing under tiles and slabs in interior and exterior areas, in swimming pools and in areas requiring chemical-resistant waterproofing
- PU base
- Can be laid without sanding up to 3 weeks after application
- Rollable, spreadable and spatable
- Very easy to smooth
- Highly flexible and crack-bridging
- Waterproof up to a depth of 10 metres



Area of application

Indoor and outdoor. Floor and wall.

Waterproofing of wall and floor areas under tiles and slab coverings in thermal baths and swimming pools, shower and washing bays, on balconies and terraces, in commercial kitchens, dairies, breweries, meat, fat and fish processing plants, as well as in the paper, leather and textile industries.

Suitable for moisture exposure classes W1, W2, W3, W4, W5 and W6 according to ÖNORM B 3407.

DIN 18534 – Waterproofing of indoor rooms:

ARDEX S 2-K PU can be used for water exposure classes W0-I, W1-I, W2-I and W3-I.

DIN 18535 – Waterproofing of containers and pools:

ARDEX S 2-K PU can be used for waterproofing containers and pools indoors and outdoors in water action classes W1-B, W2-B, W3-B.

DIN 18531 – Waterproofing of roofs, balconies, loggias and pergolas: ARDEX S 2-K PU can be used for waterproofing balconies and terraces in combination with tiles or slabs.

Building Regulations List & ZDB Data Sheet: ARDEX S 2-K PU is suitable for use in moisture exposure classes A, B and C in accordance with (DIBt) Building Regulations List A Part 2 No. 1.10 and classes A0 and B0 in accordance with ZDB Data Sheet "Waterproofing in composite structures", as well as in areas with requirements of ETAG 022.

Art

ARDEX S 2-K PU is a white, flexible, crack-bridging, two-component waterproofing compound based on modified polyurethane.

After hardening, ARDEX S 2-K PU is waterproof, frost and weather resistant, highly flexible and resistant to aqueous salt solutions and alkalis as well as a range of diluted mineral and organic acids and organic liquids and solutions.

Preparation of the surface

The substrate must be dry, free of dirt and release agents, and its strength and load-bearing capacity must be suitable for the expected stresses. Smooth concrete surfaces must be prepared using suitable methods, such as sand or shot blasting, grinding or milling. Larger uneven areas and cavities must be levelled and/or filled using suitable measures.

Absorbent substrates such as concrete, lightweight concrete, cement screeds and wall plasters of mortar

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Manufacturer with certified
QM/UM system according to
EN ISO 9001/14001

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groups II and III must be pre-treated with ARDEX EP 500 Epoxy Primer.

Please observe the technical data sheet for ARDEX EP 500 Epoxy Primer.

On smooth or dense substrates, such as existing tile coverings, ARDEX S 2-K PU can be applied without primer. Metal substrates must be cleaned and sanded if necessary.

Mixing

Before combining the resin and hardener components, stir the resin component for approx. 20 seconds until it has a smooth consistency. Then add the hardener component.

The components are matched in terms of quantity in the containers and must be mixed together completely. Both components are mixed intensively by machine with a suitable stirrer, e.g. a basket, propeller or spiral stirrer, to form a uniform and homogeneous mortar. We recommend a mixing time of between 1 and 3 minutes, depending on the container size. To avoid mixing errors, the material should then be transferred to another container and mixed thoroughly again.

Processing

ARDEX S 2-K PU Sealing Compound must be used quickly and completely within the working time of approx. 30 minutes.

It can be applied with a trowel, paint roller, brush or a suitable notched trowel. The material is applied to the substrate with the notched trowel and immediately smoothed with a surface smoother. This process is repeated after the first coat has dried to ensure that the required dry film thickness of 1 mm is achieved. Ensure that at least 2 coats are always applied.

To ensure the minimum dry layer thickness, a thickness allowance of at least 25% must be planned in accordance with the standard. The additional quantity required must be taken into account in the consumption.

Joint sealing tapes and sleeves can be bonded before the first coat or optionally in the first coat of ARDEX S 2-K PU sealing layer and then finished with the second sealing layer. All system components of the ARDEX TRICOM sealing set are suitable for this purpose.

The second coat can be applied to the wall after approx. 8 hours.

On floor areas, the second coat can be applied after 12 hours at the earliest.

After drying, the layer thickness of the waterproofing must be checked and recorded (cut into the surface or use a layer thickness gauge).

Tools can be cleaned with ARDEX CW cleaning cloths or ARDEX RG Cleaner when still fresh.

Subsequent tile laying must be carried out using the thin-bed method in accordance with ÖNORM B 3407.

ARDEX S 2-K C colour concentrate:

To ensure good contrast and thus good visual layer

control, one coat can be coloured with ARDEX S 2-K C. We recommend a maximum of 20 g of contrasting colour per 6 kg of ARDEX S 2-K PU. This produces a turquoise blue contrasting colour.

Laying tiles and slabs

Tiles and slabs can be laid on ARDEX S 2-K PU Heavy-duty waterproofing compound on wall areas at the earliest 8 hours and on floor areas at the earliest 12 hours after application of the second sealing layer.

The following are suitable for fixing and laying tiles and slabs:

- ARDEX WA epoxy adhesive
- ARDEX WA Epoxy Grout
- ARDEX X 77 MICROTEC Flex Adhesive
- ARDEX X 90 MICROTEC3 Flex Adhesive

The application and processing instructions in the relevant technical data sheets must be observed.

Chemical resistance

Resistant to:

- Pure all-purpose cleaner
- Formic acid 3%
- Ammonia, concentrated
- BREF cleaner, undiluted
- DanKlorix (green) undiluted
- Developer solution (photographic)
- Acetic acid 10%
- Formalin solution 3%
- Potassium hydroxide, concentrated
- Methyl alcohol 50%
- Lactic acid 20%
- Motor oil
- Sodium hydroxide solution, concentrated
- Phosphoric acid 40%
- Nitric acid 10%
- Hydrochloric acid 10%
- Hydrogen peroxide 8%
- Tartaric acid, pure
- Citric acid, pure

Temporarily resistant to:

- Ethyl alcohol

Not resistant to:

- Chloroform
- Ethyl acetate

Please note

Building waterproofing, such as that required for terraces above inhabited rooms, cannot be replaced with ARDEX S 2-K PU Heavy-duty waterproofing compound.

Higher temperatures shorten, lower temperatures extend the processing and drying time.

ARDEX S 2-K PU Heavy-duty Sealing Compound should be applied at temperatures between +10°C and +30°C. Freshly sealed surfaces must be protected from moisture for 12 hours.

Chemical resistance is achieved at temperatures between +18°C and +20°C after approx. 7 days.

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Note

The information in our safety data sheets must be observed.

For commercial use only!

Important: Since 24 August 2023, appropriate training must be provided prior to industrial or commercial use. Further information can be found at www.ardex.at/en/ardex-diisocyanates/

Additional information

Take care when handling: avoid the formation of dust and its release into the environment.

Dispose of the container and its contents, once they have set, in accordance with the applicable local, regional, national and international regulations.

Technical data according to ARDEX quality standard

Mixing ratio	Specified by the container	
Material requirement approx.	Consumption	Condition
	1.4 kg/m²	1 mm dry film thickness, with two coats
	0.14 kg/m	For 1 m sealing tape (with an application width of 20 cm)
	0.06 kg/piece	For a 20/20 cm seal collar (for an order size of 30/30 cm)
Fresh weight approx.	1,30 kg/l	
Application properties		
Processing time approx.	30 Minute(s)	
Can be walked on after approx.	12 Hour(s)	
Application Ambient conditions	+20°C	
Product details		
Contain diisocyanates	Yes	
Labelling according to GHS/CLP	See relevant safety data sheet	
Self-service regulation	2	
Labelling according to ADR	See relevant safety data sheet	
EMICODE	EC 1 PLUS = very low emissions PLUS	
GISCODE	PU40 = PU systems, solvent-free, harmful to health, sensitising	
Packaging	Tin container with 6 kg net weight	
Storage	Can be stored frost-free for approx. 12 months in the original sealed container.	

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EN 14891:2017	
ARDEX S2-K PU	
Cementitious liquid-applied water impermeable product with improved crack bridging ability at very low temperature (-20 °C) and resistant to contact with chlorinated water (bonded with a C2 adhesive in accordance with EN 12004)	
EN 14891:RM O2P	
Initial tensile adhesion strength:	≥ 0.5 N/mm ²
Tensile adhesion strength after water contact:	≥ 0.5 N/mm ²
Tensile adhesion strength after heat ageing:	≥ 0.5 N/mm ²
Tensile adhesion strength after freeze-thaw cycles:	≥ 0.5 N/mm ²
Tensile adhesion strength after contact with lime water:	≥ 0.5 N/mm ²
Waterproofing:	no penetration
Crack bridging ability in standard conditions:	≥ 0.75 mm
Release of dangerous substances:	See material safety data sheet