



ARDEX S7 PLUS W

Flexible waterproof slurry coating

- White cement base
- Powdery, single-component and odourless
- Rollable, spreadable and spatable
- High stability
- Highly flexible and crack-bridging
- As a sealing adhesive for bonding ARDEX SK100W TRICOM sealing membrane



Area of application

Indoor and outdoor. Walls and floors.

Waterproofing of wall and floor areas under tiles and slab coverings subject to stresses such as those occurring on balconies and terraces, in swimming pools, shower rooms, bathrooms, shower areas, above bathtubs and sanitary rooms in public and commercial areas with floor gullies.

As a sealing adhesive for laying ARDEX SK 100 W waterproofing membrane indoors and outdoors, in swimming pools, on balconies and terraces in combination with the ARDEX SK TRICOM sealing set.

ARDEX S7 PLUS W can be used as waterproofing under tiles and slabs in accordance with:

Suitable for moisture exposure classes W1 to W6 according to **ÖNORM B 3407**.

- **DIN 18534** Waterproofing of indoor rooms, for water exposure classes W0-I, W1-I, W2-I and W3-I* (*W3-I without additional chemical exposure)

- **DIN 18535 Waterproofing** of containers and basins, indoors and outdoors in water exposure classes W1-B, W2-B (up to 8 m water depth)
- **DIN 18531 Waterproofing** of roofs, balconies, loggias and pergolas.

Building Regulations List & ZDB Data Sheet

ARDEX S7 PLUS W is suitable for use in moisture exposure classes A and B in accordance with (DIBt) Building Regulations List A Part 2 No. 1.10 and classes A0 and B0 according to ZDB Data Sheet "Waterproofing in composite structures".

Art

ARDEX S7 PLUS W Flexible waterproof coating is a liquid plastic mortar combination consisting of special cements, fillers, special additives and flexible plastics. When mixed with water, it forms a smooth mortar that can be spread, rolled and trowelled and hardens through hydration and drying. The hardened sealing layer is permanently waterproof, vapour-permeable and flexible.

Preparation of the surface

The substrate can be dry or damp, but must be solid, load-bearing and free of dust and release agents. Gypsum substrates and absorbent or sanded anhydrite screeds must be pre-coated with ARDEX P 51 Adhesive and Priming Dispersion, diluted 1 : 3 with water.

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Gypsum plasters must be solid, dry, single-layer, at least 10 mm thick, not felted and smoothed. Moisture penetration from the substrate must be prevented. The structural conditions must therefore be checked before waterproofing.

Suitable substrates

Concrete, masonry, aerated concrete, plasters of mortar groups II, III and IV, gypsum plasterboard, gypsum fibre boards and other building boards, cement screeds, calcium sulphate flowing screeds, dry screeds, old tiles and slab coverings (sand down glazed and polished surfaces), heated screeds and other suitable substrates.

Mixing

ARDEX S7 PLUS W Flexible waterproof coating can be adjusted to a trowelable or brushable consistency.

Trowelable consistency: approx. 4 litres of water : 15 kg powder

Brushable consistency: approx. 5 litres of water : 15 kg powder

Basket and ring mixers with a minimum speed of 650 rpm are suitable for mixing. To improve the processing quality, stir the mortar thoroughly again after a setting time of 1–2 minutes.

Processing

Only mix as much sealing compound as can be used within 60 minutes. Do not add water to sealing compound that has started to set. For porous, highly absorbent substrates, first wipe ARDEX S7 PLUS W sharply onto the substrate with the smooth side of a notched trowel. This fills pores and cavities with sealing compound so that no gaps can form later. To ensure the required dry layer thickness of at least 2 mm, we recommend using a 4 mm block notched trowel. The material is applied to the substrate with the notched trowel and smoothed with the smooth side of the notched trowel. This process is repeated after the first coat has dried to ensure that the required dry layer thickness of 2 mm is achieved. Make sure that at least 2 coats are always applied.

Approximately 1.5 kg of mortar per square metre is required for one application. Sanding of the surface is not necessary due to the good adhesion properties. Due to the high stability of the material, holes and depressions can be filled and unevenness can be levelled in a single step. Approx. 4 hours after installation and drying of the second layer, the surface can be tiled. Joint sealing tapes and collars are bonded into the first coat of ARDEX S7 PLUS W sealing layer and then integrated with the second sealing layer.

If the product is applied with a brush, more than two coats may be necessary to achieve the required dry film thickness of 2 mm. It is therefore recommended to check the application thickness at several points while the sealing compound is still plastic.

Alternatively, ARDEX S7 PLUS W can also be sprayed using suitable equipment.

It is essential to ensure that each layer is applied to the entire surface, is closed and adheres well. Ensure that a dry film

thickness of at least 2 mm is achieved in at least two coats. This requires a total wet film thickness of 2.5 mm.

ARDEX S7 PLUS W Flexible waterproof coating must be applied at temperatures above +5°C.

Higher temperatures shorten, lower temperatures extend the processing and load times.

Bonding ARDEX SK 100 W:

To bond ARDEX SK 100 W, we recommend a brushable consistency and, for application on smooth substrates, a 3 mm block notched trowel; for rough substrates, a 4 mm block notched trowel. Alternatively, ARDEX S7 PLUS W can also be applied with a roller.

Laying tiles and slabs

Tiles and slabs can be laid on ARDEX S7 PLUS W approx. 4 hours after the waterproofing measures have been completed. The following are suitable for fixing and laying tiles and slabs (up to a dry layer thickness of 5 mm):

- ARDEX X 6 Flexmortar
- X 7 G – DIE ERFOLGSFORMEL thin-bed, mortar
- ARDEX FB 9 L Flexible fluidised bed mortar, long
- ARDEX X 77 MICROTEC Flexible adhesive
- ARDEX X 77 S MICROTEC Flexible adhesive, fast
- ARDEX X 78 MICROTEC Flexible adhesive
- ARDEX X 90 MICROTEC3 Flexible adhesive
- ARDEX N 23 W NEW MICROTEC Natural stone and tile adhesive, white
- ARDEX X 32 Flexible bedding mortar
- ARDEX WA white Epoxy adhesive

Please note that ARDEX N 23 W NEW adhesive is suitable for use in water exposure classes W1, W2 and W3 in accordance with ÖNORM B 3407.

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

Please note

Waterproofing, such as that required for terraces above inhabited rooms, cannot be replaced with ARDEX S7 PLUS W. In areas subject to chemical stress, such as commercial kitchens, dairies, breweries and similar, waterproofing measures must be carried out with ARDEX S 2-K PU Highly resistant sealing compound. The current standards for building waterproofing and relevant data sheets apply. In case of doubt, carry out test work.

Note

The information in our safety data sheets must be observed. For commercial use only!

Zusatzinformation

Handle with care during processing: avoid dust formation and release into the environment.

Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/international regulations.

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Technical data according to ARDEX quality standard

Mixing ratio approx.	Component A 15 kg powder 15 kg powder	Component B 4 l Water 5 l Water	Consistency Spatula-applicable Coatable
Material requirement approx.	Consumption 2.5 kg/m ² 0.9 kg/m ² 1.1 kg/m ² 0.7 kg/m ²	Condition For 2.5 mm wet film thickness For bonding the SK 100 W with 3 mm block teeth For bonding the SK 100 W with 4 mm block teeth For bonding the SK 100 W with roller	Consistency Coatable Coatable Coatable
Fresh weight approx.	1,30 kg/l		

Application properties

Processing time approx.	60 Minute(s)
Can be walked on after approx.	4 Hours after installation of each individual layer
Application Ambient conditions	+20°C

Product details

Labelling according to GHS/CLP	See relevant safety data sheet
Labelling according to ADR	See relevant safety data sheet
EMICODE	EC 1 PLUS = very low emissions PLUS
GISCODE	ZP1 = cementitious product, low chromate content
Packaging	Bags containing 15 kg net
Storage	Can be stored in dry rooms for approx. 9 months in the original sealed container. Seal opened containers tightly.

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ARDEX Baustoff GmbH Hürmer Straße 40 A-3382 Loosdorf Austria	
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46483	
EN 14891:2012/AC:2012	
46483 ARDEX S 7 PLUS W, EN 14891:CM O2P	
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)	
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:	NPD