



# ARDEX S 1-K PLUS/S 1-K C PLUS

## Sealant / Sealant in contrasting colour

- Waterproofing under tiles and slabs in interior areas
- Single-component
- Crack-bridging
- Solvent-free
- Non-drip
- Can be rolled, brushed and trowelled



### Area of application

Indoors. Walls and floors.

Waterproofing of wall and floor surfaces under tile and slab coverings subject to stresses such as those occurring in bathrooms and shower areas with baths and shower trays. ARDEX S1-K/S1-K C PLUS can be used as a waterproofing under tiles and slabs in accordance with:

**DIN 18534** Waterproofing of interior spaces for water exposure classes W0-I, W1-I, W2-I\* (\*W2-I only wall surfaces and surfaces without additional chemical exposure).

Sealing of wall surfaces in stress class A in accordance with the test principles for issuing a general test certificate (e.g. public showers).

For stress classes A0 in accordance with the information sheet "Notes on the execution of liquid-applied composite waterproofing with tile and slab coverings and cladding for indoor and outdoor use", ZDB.

### Type

ARDEX S1-K PLUS/S1-KC PLUS is a ready-to-use, solvent-free dispersion with special fillers and additives. ARDEX S1-K PLUS/S1-KC PLUS is easy to apply, has a smooth, paste-like consistency, does not splash or drip and is waterproof and highly flexible when dry.

### Preparation of the substrate

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

The substrate must be dry, solid, load-bearing and free of dust and release agents. Gypsum substrates and absorbent or sanded calcium sulphate screed must be pre-coated with ARDEX P 51 Adhesive and Primer Dispersion, diluted 1:3 with water. Gypsum plasters must be solid, dry, at least 10 mm thick in a single layer, not felted and smoothed.

The penetration of moisture from the substrate, for example via an exterior wall, must be prevented. In this respect, the structural conditions must be checked before the waterproofing measures are carried out. Subfloors made of chipboard must be suitable for laying tiles. The chipboard must be of V100G quality, of sufficient thickness, tongue and groove, glued and fixed in a torsion-resistant manner.

### Application

ARDEX S1-K PLUS/S1-KC PLUS can be applied with a trowel, brush, roller or short-pile roller. First, joints prone to cracking, corners, edge joints, movement joints and penetrations must be sealed with ARDEX SK TRICOM sealing kit. To do this, apply ARDEX S1-K PLUS/S1-KC PLUS is applied generously to the relevant areas and sealing tape or collars are stuck into the still fresh application. The first full-surface application of the sealing compound then follows. The sealing compound should be applied in an even thickness. For very



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On rough substrates, it is recommended to apply the sealant with a smoothing trowel. The drying time of ARDEX S1-K PLUS/S1-KC PLUS depends on application thickness, absorbency of the substrate and site conditions.

The second coat can be applied at normal temperatures after approx. 2 hours at the earliest or, in the case of floor surfaces, as soon as the first sealing coat can be walked on without damage. Higher temperatures and low humidity shorten the drying time, while lower temperatures and high humidity prolong it. ARDEX S1-K PLUS/S1-KC PLUS must always be applied in at least

Apply two generous coats so that, with a total consumption of at least 0.8-1.2 kg/m<sup>2</sup>, a total thickness of at least 0.5 mm is ensured for the two dried coats.

Joint tapes and collars are coated or filled over the entire surface during the second application and integrated into the sealing layer.

ARDEX S1-K PLUS/S1-KC PLUS can be applied at temperatures between +5°C to 30°C.

### Laying tiles and slabs

The laying of tiles and slabs on ARDEX S1-K/C PLUS can be started after the second sealing layer has dried, at the earliest after 6 hours.

For substrates that are still shrinking or other substrates that are prone to deformation, such as building boards, as well as for laying porcelain stoneware tiles, we recommend using flexible thin-bed mortar. The products in the ARDEX natural stone system are suitable for the discolouration-free installation of marble and other natural stones in interior areas.

The following are suitable for fixing and laying tiles and slabs (up to a dry layer thickness of 5 mm):

ARDEX X 6 Flexible Adhesive  
ARDEX X 7 G FLEX Flexible Mortar  
ARDEX X 7 G S Flexible Mortar, Fast  
ARDEX X 7 G Plus Flexible Mortar  
ARDEX X 77 MICROTEC Flexible Adhesive  
ARDEX X 77 W MICROTEC Flexible Adhesive, white  
ARDEX X 78 MICROTEC Flexible Adhesive, floor  
ARDEX X 80 MICROTEC Multi-purpose Adhesive

### Technical data according to ARDEX quality standard

Material requirements approx.

**Consumption**  
0.45-1.2 kg/m<sup>2</sup>

**Condition**

2 coats, minimum dry film thickness 0.5 mm

Fresh weight

**Fresh weight approx.**  
1.50 kg/l

### Application properties

Walkable after approx.

6 hours after completion of sealing measures Ready for laying

Application Ambient conditions

+20

ARDEX X 80 S MICROTEC Multi-purpose adhesive,  
fast ARDEX X 90 MICROTEC3 Flexible adhesive  
ARDEX N 23 W NEW MICROTEC Natural Stone and Tile Adhesive  
ARDEX S 28 MICROTEC Large Format Adhesive  
ARDEX X 32 Flexible laying mortar

ARDEX WA Epoxy adhesive

ARDEX RG12 Fine epoxy grout

Please note that ARDEX S 28

and ARDEX N 23 W NEW adhesives are suitable for use in water exposure classes W0-I and W1-I in accordance with DIN 18534. The application and processing instructions in the technical data sheets must be observed. ARDEX S 7 PLUS, ARDEX S 8 FLOW or ARDEX SK 100 W

If sealing collars or sealing tapes are used on shower channels or floor drains, the sealing work must be carried out using plastic mortar combinations.

In cases of doubt, test work must be carried out.

### Please note

For substrates that are still shrinking or other substrates that are prone to deformation, such as building boards, as well as for laying porcelain stoneware tiles, we recommend the use of flexible thin-bed mortar. The products of the ARDEX natural stone system are suitable for the discolouration-free installation of marble and other natural stones in interior areas.

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

For floor waterproofing in walk-in showers, we recommend ARDEX S 7 PLUS, ARDEX S 8 FLOW or ARDEX SK 100 W.

If sealing collars or sealing tapes are used on shower channels or floor drains, the sealing work must be carried out with plastic mortar combinations.

In case of doubt, test work should be carried out.

### Note

The information in our safety data sheets must be observed.

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### Product


Suitability for underfloor heating	Yes
EMICODE	EC 1 PLUS = very low emissions PLUS
GISCODE	D1 = solvent-free dispersion installation materials
Packaging	Bucket with 16 kg net, bucket with 4 kg net
Storage	Can be stored in dry rooms for approx. 9 months in the original sealed container. Store in a frost-free place.

### Application advice

Technical hotline:

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Email: [info@ardexbuildingproducts.ie](mailto:info@ardexbuildingproducts.ie)

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ETA-22/0627 0761-CPR-1159 EAD 030352-00-0503	
<b>40359 ARDEX S 1-K PLUS / S 1-K C PLUS Dichtsystem,                  EAD 030352-00-0503, Kategorie II</b> Flüssig applizierte Abdichtung von Wänden und Böden in innenliegenden Nassräumen, die Temperaturen von 5°C bis 40°C aufweisen können, unterhalb einer Nutzsicht	
Brandverhalten:	E
Freisetzung gefährlicher Stoffe:	NPD
Wasserdampfdurchlässigkeit:	Sd = 63,9 m (mit Primer gemäß ETA)
Wasserdichtheit:	wasserdicht
Rissüberbrückungsfähigkeit:	Kategorie 2: 0,75 mm
Haftzugfestigkeit:	Kategorie 2: ≥ 0,5 MPa
Fugenüberbrückungsfähigkeit:	wasserdicht
Wasserdichtheit an Durchdringungen:	wasserdicht
Temperaturbeständigkeit:	Kategorie 2: ≥ 0,5 MPa Kategorie 2: 0,75 mm
Wasserbeständigkeit:	Kategorie 2: ≥ 0,5 MPa
Alkalibeständigkeit:	Kategorie 2: ≥ 0,5 MPa
Schichtdicke:	0,5 mm

We guarantee the flawless quality of our products. Our processing recommendations are based on tests and practical experience; however, they can only be general guidelines without any guarantee of properties, as we have no influence on the conditions at the construction site and the execution of the work. Country-specific regulations based on regional standards, building regulations, processing or industry guidelines may lead to specific processing recommendations.