



ARDEX S 1-K

One-Component Waterproofing and Crack Isolation Membrane

- Flexible, topside waterproofing for interior floors and walls
- Very easy-to-apply, 2-coat system; paint roller or brush
- Use for bathrooms, showers and other wet areas prior to the installation of tile
- Easy to install with a paint roller or brush
- Highly workable consistency; minimal drips and splatters
- Crack isolation up to 3 mm
- Bonds to a wide range of substrates



Areas of use

Indoor. On walls and floors.

Insulation material used on walls and floors, beneath ceramics and tiles, in bathrooms, shower areas, and around tubs, both above and below, as well as in drainage areas. It can also be used in communal shower facilities.

Product type

ARDEX S 1-K is a ready-to-use, solvent-free elastomeric synthetic resin (polymer)-based dispersion, with special fillers and additives, designed for insulation purposes. ARDEX S 1-K is easy to apply, with a light consistency, non-dripping, and non-splashing. Once dried, it becomes completely water-resistant, waterproof, and possesses high elastic properties, making it an elastomeric insulation material.



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40359 ARDEX S 1-K PLUS / S 1-K C PLUS
Watertight Covering System

EAD 030352-00-0503, Assessment Category II

Liquid applied watertight covering kits for walls and floors in interior wet rooms exposed to temperatures between 5°C and 40°C installed beneath a wearing surface

Reaction to fire	: E
Release of dangerous substances	: NPD
Vapour permeability	: Sd = 63.9 m (with Primer according to ETA)
Watertightness	: watertight
Joint bridging capability	: Assessment Category 2: 0.75 mm
Bond strength	: Assessment Category 2: ≥ 0.5 MPa
Crack bridging ability	: watertight
Water tightness around penetrations	: watertight
Resistance to temperature	: Assessment Category 2: ≥ 0.5 MPa Assessment Category 2: 0.75 mm
Resistance to water	: Assessment Category 2: ≥ 0.5 MPa
Resistance to alkalinity	: Assessment Category 2: ≥ 0.5 MPa
Thickness	: 0.5 mm

ARDEX Turkey is a subsidiary of the International ARDEX Group.

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Substrate Preparation

The surface to be applied must be a dry one, free from materials preventing adhesion and dust, with a maximum moisture content of 4% and having completed a 28-day curing period with a solid load-bearing capacity. Gaps or defects in the floor can be corrected with AR 300.

Gypsum plasters should be dry, solid, and applied in a single layer with a minimum thickness of 10mm, without surface polishing or steel trowel application.

Moisture ingress from the opposite side of the applied substrate must be prevented. Insulation values of the structure should be reviewed and checked according to structural requirements.

Application

ARDEX S 1-K can be applied using a trowel, brush, or roller. Firstly, areas prone to cracking, edges, corners, expansion joints, and pipe penetrations are sealed with ARDEX sealing tape. ARDEX S 1-K is then applied adequately under the insulation tape and cuffs in these areas, with a generous amount applied beforehand. The applied material should be fresh when the tape and cuffs are adhered on top.

Next, the first layer of insulation material is applied to the floor and wall. The insulation material should be applied in even thicknesses. It is recommended to use a trowel or spatula to spread the insulation material on rough surfaces.

The drying time of ARDEX S 1-K depends on the application thickness, the absorbency of the substrate, and the site's environmental conditions. The second coat can be applied approximately 2 hours later under normal conditions or when the floors are ready to be walked on.

High temperatures and low humidity conditions shorten the drying time, while low temperatures and high humidity extend it. ARDEX S 1-K must be applied in at least 2 coats, ensuring a thickness of 0.5 mm after each application. This will result in an approximate material consumption of 1.1 kg/m².

Insulation tapes, cuffs, and mesh applications are sealed after the second layer of insulation material is applied.

The application temperature range for ARDEX S 1-K is between +5 – +30°C.

Installation of Ceramic and Other Covering Tiles

The laying of the final layer of ceramic and covering tiles can commence earliest 12 hours after the insulation material has dried.

Within the ARDEX product range, there are various thin-bed mortars available for the preparation of ceramic and other covering tiles. Application guidelines and important considerations are provided in related technical datasheets.

For applications on concrete, screed, mortar, etc., which are still curing and undergoing hydration, especially when granite ceramic tiles are to be bonded, it is strongly recommended to use a flexible adhesive. For delicate coverings such as marble that may undergo color changes, it is advisable to use ARDEX natural stone system products.

To be considered

When used in the field of construction supervision, a minimum dry layer thickness of 0.5 mm is required. ARDEX X 7 G can be used for laying ceramic tiles on top. In cases of contradiction, a sample application should be conducted.

Note

It is harmless to the environment and human health.

Technical Data According to ARDEX Quality Standards

Fresh mortar weight:	1,5 kg/lt
Material requirement:	1,1 kg/m ² for non-porous substrates
Setting time:	approx. 6 hours
Suitable for underfloor heating:	Yes
GHS/CLP classification:	None
GGVSEV/ADR classification:	None
Packaging:	Available in 20kg or 4kg buckets.
Storage and Shelf life	In its original unopened packaging, it can be stored for approximately 6 months in a dry and cool environment, protected from sunlight and freezing temperatures.