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# **ARDEX S 2-K™**

## **High Performance Two-Component Waterproofing Compound**

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**Epoxy-based substrate waterproofing material  
to receive ceramic tile**

**Waterproof all substrates in residential,  
commercial, and industrial applications**

**Prevents moisture penetration from above**

**Flexible**

**Water and frost resistant**

**Chemical resistant**

**Receives all types of tile**

**Crack bridging ability**

**Two coat system**

**Use for interior and exterior floors and walls**

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# ARDEX S 2-K™

## High Performance Two-Component Waterproofing Compound

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### Usage

Provides positive side waterproofing to all common building substrates that require protection from topside water exposure that would otherwise damage the installation. Use over concrete, masonry finishes, existing tile, drywall, plywood, and cementitious backer boards on all interior and exterior floors and walls.

### Description

ARDEX S 2-K™ is a two-component modified epoxy system that produces a flexible, waterproof coating to protect substrates from water from above and provides an excellent bonding layer for ceramic tile setting materials.

### Substrate Preparation

ARDEX S 2-K requires a solid substrate that is clean, dry, and free of all oils, grease, wax, latex compounds, curing compounds, dust, and all foreign matter. (Refer to ANSI A108 AN-2 "General Requirements for Subsurfaces" and the Tile Council of America's "Handbook for Ceramic Tile Installation" for detailed information on surface preparation and guidelines for substrate construction.) The plane of wall surfaces must be plumb and true. Floor surfaces must have minimal variation in the plane or slope.

Should pre-leveling over concrete and masonry substrates be required, use ARDEX AM 100™ PRE-TILE REPAIR MORTAR. Waterproofing with ARDEX S 2-K may proceed in 24 hours.

ARDEX S 2-K will provide a waterproof seal over dormant cracks up to 1/4" wide. Expansion joints must be provided over existing moving joints and cracks, and where substrate materials change composition or direction per ANSI A108 AN-3.7.

Highly absorbent substrates such as plaster and concrete must first be primed with ARDEX S 2-K™ PRIMER.

### Mixing And Application

ARDEX S 2-K is supplied as a single 2 gallon unit (22 lbs.) that consists of two one gallon (11 lbs.) units of PART A and PART B. Mix all of PART A and PART B together in a separate container using a low-speed drill and mixing paddle. Mix thoroughly to ensure a homogeneous mix.

Apply ARDEX S 2-K in a heavy application to fill around floor or wall penetrations, in corners, floor to wall joints, and cracks at a width up to 1/4". Apply glass tape into the freshly installed ARDEX S 2-K when joints widths exceed 1/4", and then smooth over the area with a putty knife.

Next, apply the first coat of ARDEX S 2-K over the surface of the substrate with a paint roller. Use a paintbrush in corners and along edges. Coat the entire area to be waterproofed and allow thorough drying for a minimum of 16 hours up to a maximum of 48 hours.

A second layer of ARDEX S 2-K is then applied to the substrate at a 90° angle to the first coat. While the second coat is still fresh, broadcast play sand into the ARDEX S 2-K to the point of refusal. Allow ARDEX S 2-K to dry thoroughly for 16 hours. Remove any unbonded sand by vacuuming. With the sand removed, the substrate is ready to receive the tile installation using the appropriate Ardex setting material.

Tile installation should proceed in accordance with ANSI A108.5.

The pot life of ARDEX S 2-K is approximately 45 minutes at 70°F (21°C). Higher temperatures will reduce the pot life.

Do not use ARDEX S 2-K at temperatures above 85°F (29.4°C).

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## Notes

Tools should be cleaned immediately after use with water.

As always, Ardex recommends the installation of test areas to confirm the suitability of the product for the intended use.

ARDEX S 2-K must be worked at temperatures between 50°F (10°C) and 85°F (29.4°C).

## Precautions

ARDEX S 2-K is an epoxy material. Avoid skin and eye contact. Wear rubber gloves and eye protection. Mix and apply in a well ventilated area and avoid breathing material. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on product label. For complete safety information, please refer to the Material Safety Data Sheet or visit our website at [www.ardex.com](http://www.ardex.com).

Physiologically and ecologically friendly when set. Never mix with cement or additives other than Ardex approved products. Observe the basic rules of tile work. Do not install below 50°F (10°C) or above 85°F (29.4°C) surface temperature.

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## Technical Data According To Ardex Quality Standards

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**Mixing Ratio:** Mix PART A with PART B

### Material Requirements on Smooth Substrate (approx.):

A single 2 gal. unit will cover 50 sq. ft. (2 coats) when applied over a smooth surface. Final coverage depends on the profile of the substrate.

**Working Time:** Up to 45 minutes at 70°F (21°C)

**Pot Life:** Up to 45 minutes at 70°F (21°C)

**Drying Time:** First coat: min. 16 hours,  
max. 48 hours;  
Second coat: 16 hours

**Packaging:** 2 gallon unit, 22 lbs. net weight

**Storage:** Store in a cool dry area.  
Do not expose container to sun.  
Keep from freezing.

**Shelf Life:** One year

**Warranty:** Please see the ARDEX  
Tile & Stone Installation  
System Warranty Brochure.

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