



Ardatec 2K Flex

TWO-COMPONENT MINERAL SEALING SLURRY

TECHNICAL DATA SHEET

SMART PRODUCT BENEFITS

- Bonded seal under ceramic coverings (AIV-F)
 - on balconies, on terraces, in wet rooms, in swimming pools
- Mineral sealing slurry as building waterproofing in areas in contact with the ground
 - against soil moisture and non-pressing water, against capillary rising
- Moisture in and under wall contact areas
 - flexible and crack-bridging
- for indoor water exposure classes from W0-I to W3-I according to DIN 18534-3
 - for water exposure class in basin W2-B up to 6 m filling height according to DIN 18535-1
- for balconies, terraces, loggias according to DIN 18531-5
 - for water exposure class in the area in contact with the ground W1-E and W4-E according to DIN 18533
- according to DIN EN 14891: 2017-05, as CM 01 P
- for stress classes A and B according to ZDB with AbP

PRODUCT DESCRIPTION

Ardatec 2K Flex is a two-component, flexible mineral sealing slurry for sealing in a composite (AIV-F) under ceramic coverings and for sealing structures in areas in contact with the ground. Waterproof, flexible and crack-bridging after setting. Ardatec 2K Flex cures without cracks. Simple and easy to apply using a brush, roller or spatula method. Ardatec 2K Flex is low in chromate according to EU-VO 1907/2006 (REACH) and meets the requirements of building material class B2 "normally flammable" according to DIN 4102-1. Can be used for water exposure classes according to DIN 18531-5 on balconies, according to DIN 18533 for building waterproofing, according to DIN 18534-3 indoors and according to DIN 18535-3 in the pool area.

APPROVAL I (AIV-F) / AREAS OF APPLICATION

Ardatec 2K Flex has been tested according to the "Test principles for sealing materials to be processed in liquid form in combination with tile and slab coverings (PG-AIV-F) June 2010". For the load classes A and B according to the ZDB data sheet, according to the building regulations list A, part 2 serial no. for W0-I to W3-I) as a system adhesive mortar and Ardatape 120 Flex and accessories as the respective sealing tape system.

Ardatec 2K Flex as a composite seal (AIV-F) under ceramic tiles and panels for surfaces on walls and floors that are directly and indirectly exposed to industrial and industrial water. For sealing substrates made of concrete, masonry, screed, plaster, plasterboard, non-positive closed joints of plasterboard. Suitable for crack class R1-I (maximum change in crack width / new crack formation in the substrate after application of the sealing slurry of 0.2 mm), e.g. B. in wet rooms, shower systems, on balconies and terraces, against water pressing from the inside in swimming pools (against leakage) and also for pool surrounds. Ardatec 2K Flex can be used inside, outside and under water. We recommend using our product Ardatec Xtrem, based on epoxy resin, for very high exposure to additional long-term chemical exposure.

SEALING OF BALCONIES AND TERRACES, DIN 18531-5: - WITH LIQUID SEALING MATERIALS IN COMPOSITION (AIV-F): (no classified standard specification of water exposure)

Ardatec 2K Flex can be used with runoff, non-accumulating effects on horizontal surfaces, consisting of solid mineral substrates, such as B. concrete or cement screed. Suitable as a water-bearing layer with a minimum gradient of 1.5% to accommodate tiles. The laying should take place as soon as possible after hardening. The execution of the laying work is based on DIN 18157-1 with S1 adhesive mortars.

SEALING OF INTERIORS; DIN 18534-3: - WITH LIQUID PROCESSING AB SEALING MATERIALS IN COMPOSITION (AIV-F); for W0-I to W3-I

Ardatec 2K Flex can be used with water exposure class W0-I (low exposure) on walls and floors; infrequent exposure to splash water; z. B. Wall surfaces in bathrooms outside of shower areas and domestic kitchens. Floor areas in the home without drainage, e.g. B. in kitchens, utility rooms, guest toilets.



Ardatec 2K Flex can be used with water exposure class W1-I (moderate exposure) on walls and floors; infrequent exposure to service water without intensification by accumulating water; z. B. Wall surfaces over domestic bathtubs and shower trays. Floor areas in the home with a drain and / or in domestic bathrooms with a drain without high water exposure from the shower area.

Ardatec 2K Flex can be used with water exposure class W2-I (high exposure) on walls and floors; with frequent exposure to service water, especially on the ground, at times intensified by accumulating backwater; z. B. Wall surfaces of showers in sports and commercial facilities. Floor areas with drains or channels. Floor areas in rooms with floor-level showers. Wall and floor areas of sports and trade confirmed.

Ardatec 2K Flex can be used with water exposure class W3-I (very high exposure) on walls and floors: Areas with very frequent or long-term exposure to spray and / or service water and / or water from intensive cleaning processes, intensified by accumulating water, e.g. Areas in the area of swimming pool surrounds, showers and shower facilities in sports / commercial facilities. Areas in commercial kitchens, laundries, breweries ... The execution of the laying work is based on DIN 18157-1.

Note: We recommend using our product Ardatec Xtrem, based on epoxy resin, for very high exposure due to additional long-term chemical exposure.

SEALING OF CONTAINERS AND BASINS; DIN 18535-3: - COMPOSITE WITH LIQUID SEALING MATERIALS (AIV-F); as W2-B up to 6 m filling height; for the locations S1-B (free-standing) and S2-B (internal, adjacent)

Ardatec 2K Flex can be used in the underwater area against water pressing from the inside on wall and floor surfaces on solid mineral substrates, such as B. concrete, cement plaster or cement screed. Only suitable as a seal in the compound to hold tiles and slabs. The laying should take place as soon as possible after hardening. The execution of the laying work is based on DIN 18157-1.

APPROVAL II (STRUCTURAL SEALING) / AREAS OF APPLICATION

Ardatec 2K Flex is a two-component, flexible mineral sealing slurry, classified according to the building regulations list A, part 2, serial. No. 2.49. In connection with the sealing tape and accessory system components, suitable for the sealing of buildings and components, according to crack class R1-E, for room use classes RN 1-E and RN 2-E, according to DIN 18533. Ardatec 2K Flex can be used with water exposure class W1 -E, walls in contact with the ground, against soil moisture, non-pressing water and with water exposure class W4-E, sealing on wall bases, sealing in and under walls against capillary-rising moisture ..

PROCESSING FOR ALL AREAS OF APPLICATION

Ardatec 2 K Flex must always be applied in two work steps in order to achieve the required layer thickness. Before applying the first layer of Ardatec 2K Flex, dry, absorbent substrates must be lightly pre-moistened or primed with Ardagrip Classic, diluted 1: 5 with water. The primer must be drawn into the substrate before the first layer of Ardatec 2K Flex can be applied. Ardatec 2K Flex is supplied in the appropriate mixing ratio (powder component in a 15 kg bag, liquid component in a 5 kg canister). The liquid component is placed in a clean mixing vessel

Powder component added and both components mechanically mixed with a helical mixer until homogeneous and free of lumps. To ensure an even application of Ar-datec 2K Flex, the use of a 4 x 4 x 4 notched trowel is recommended. Each order is drawn on with the toothed side and then smoothed out with the toothless side; The intended application quantity and layer thickness are thus roughly adhered to. In general, it must be ensured that the previously applied layer must be stable (scratch-resistant) before each new application. This is the case after approximately 3 to 4 hours. Ardatec 2K Flex can be applied with a brush, a notched trowel or a suitable spraying machine. The evenness of the layers must be ensured. Depending on the type of application, it may also be necessary to apply a further, third layer. The minimum dry layer thickness for all applications is approx. 2.0 mm (wet approx. 2.4 mm) with a consumption of approx. 3.8 kg / m²

SUBSTRUCTURE MATURITY

Concrete, usually after 6 months, according to DIN 18157. Cement screed: after reaching the residual moisture, heated 1.8 CM%, unheated 2.0 CM%. Calcium sulphate screed: after reaching the residual moisture, heated 0.3 CM% and unheated 0.5 CM%.

SEALING OF CONNECTION JOINTS

Joints in concrete and screed as well as joints between wall and floor surfaces are sealed with Ardatape 120 Flex or Ardatape Inside / Outside. Before the first coating, the sealing tape is fully bonded with Ardatec 2K Flex. Construction joints or expansion joints in z. B. pool body or screed are to be bridged with Ardatape 120 Flex with the incorporation of a loop. (Mixing ratio 1: 3, one (1) part liquid component to three (3) parts powder component).

CONNECTION TO FLOOR RUNS AND GUTTERS

Only floor drains with a suitable compression sealing flange should be installed. Like the surface, the flange is coated with Ardatec 2K Flex and integrated into the surface sealing by inserting Ardatape Floor or Ardatape Strong (fabric). Suitable flange widths for gutter systems are specified in accordance with DIN 18534; for W0-I, W1-I and W2-I ≥ 30 mm, for W3-I ≥ 50 mm.

SEALING PENETRACES

Installation feed-throughs are integrated into the surface sealing using Ardatape Wall or Ardatape Floor or Ardatape Strong (fabric). Before doing this, it is advisable to fill the joints between the penetration and the ceramic with an elastic sealant, e.g. B. with sanitary silicone Profi, Profisil Premium.

APPLICATION OF TILES AND SLABS

Tiles or slabs can be glued onto the waterproofing with Ardatec 2K Flex after a drying time of approx. One day. We recommend the respective system adhesive mortar according to AbP: Ardaflex Flexmörtel, Ardaflex Top², Floorflex Classic and [Ardafix Pro (only inside, for W0-I to W3-I)] as system adhesive mortar and Ardatape 120 Flex and accessories as the respective sealing tape system. Our current technical data sheets must be observed for processing the adhesive mortar. Laying according to DIN 18157-1.

INSTRUCTIONS FOR SEALING SWIMMING POOLS

A prerequisite for the installation of seals is a pool body that is free of cracks and deformation. Movement or construction joints in the concrete body must be sealed on site with a joint tape set in concrete. The waterproofing is to be arranged on the pool side facing the water (inside). It must form a closed basin and, as a rule, be guided above the highest water level. After completion of the sealing work and before starting the tile work, the effectiveness of the sealing must be checked by means of a test filling lasting at least 2 weeks. Swimming pools that are located in the ground require additional protection from the outside.

FOR BRINE BATHROOMS ACCORDING TO THE ANALYSIS OF THE BATHING WATER, SEALING AND BONDING WITH REACTIVE RESIN BASES ON THE BASIS OF EPOXY RESIN MAY BE REQUIRED:

For this we recommend our products Ardatec Xtrem for sealing, Ardaflex Xtrem and Floorflex Xtrem for tile bonding and Ardacolor Xtrem Easy or Ardacolor Xtrem Multi for grouting.

PROCESSING EQUIPMENT

Suitable processing equipment can e.g. B. from Collomix, Gaimersheim.

With this information, we want to advise you to the best of our knowledge based on our tests and experience. However, we cannot guarantee the processing result in individual cases due to the large number of possible uses and the storage and processing conditions of our products that are beyond our control. Perform your own tests. Slight discoloration of sealants under UV radiation is possible. Slight color fluctuations between batches due to production technology. No guarantee is given for absolute color accuracy. Use material from the same batch depending on the object. Our technical and commercial advisory service is at your disposal.

Mit dem Erscheinen dieses Datenblattes werden alle früheren Ausgaben ungültig.

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TECHNISCHE ANGABEN UND DATEN

Basis	Two-component mineral flexible sealing slurry
Density	ca. 1,6 g/ml
Mixing ratio	15 kg Powder component 5 kg Liquid component
Examination after DIBT	Tested positive up to 15 m water column. Approved up to 6 m WS
Exams after DIN EN 14891/2012-07	Tested as CM 01 P: Liquid-processed, water-impermeable cement product with improved crack-bridging capacity at low temperatures (-5 ° C) and resistance to chlorinated water. Adhesive pull after immersion in water ≥ 0.5 MPa Adhesive pull after contact with chlorinated water ≥ 0.5 MPa Crack bridging under normal conditions ≥ 0.75 mm Crack bridging at low temperatures (-5 ° C) ≥ 0.75 mm
Assignment according to DIN 18535-3	Sealing of tanks and basins Sealing system with an AbP according to PG-AIV-F CM 01 P (see above) W2-B (Water exposure class up to 6 m WS) R1-B (bridging new cracks or changes in crack width up to 0.2 mm S1-B (Location: external, free-standing pool) S2-B (Location: inside, adjacent pool)
Assignment according to DIN 18534-3	Sealing of interiors Sealing system with an AbP according to PG-AIV-F Crack-bridging mineral sealing slurry (CM) W0-I bis W3-I (Water exposure class from low to very high stress *) [* for very high stress and intensive exposure to additional chemicals it is advisable to use reactive resins (RM) R1-I (Bridging new cracks or changes in crack width up to 0.2 mm)
Assignment according to DIN 18533-3	Sealing of components in contact with the ground Sealing system with an AbP according to PG-MDS crack-bridging mineral sealing slurry (CM) CM 01 P (see above) W1-E Walls in contact with the ground, against ground moisture, non-pressing water, up to 3 m immersion depth W4-E Sealing on wall bases, sealing in and under walls against capillary rising moisture. R1-E (Bridging new cracks or changes in crack width up to 0.2 mm) RN 1-E und Use of space RN 2-E
Assignment according to DIN 18531-5	Sealing of balconies and terraces Sealing system with an AbP according to PG-AIV-F Crack-bridging mineral sealing slurry (CM) W (no classified standard specification of Water exposure) For areas outside with draining, non-accumulating surface CM 01 P surface water (see above) R (Bridging new cracks or changes in crack width up to 0.2 mm)
Dry layer thickness for all water exposure classes	2,0 mm (2,4 mm Wet layer thickness)
Dry mortar consumption	ca. 3,8 kg/m ² - for 2 coatings
Ripening time	ca. 3 Minute
Processing time	ca. 60 Minute
Processing temperature	Not below + 5 ° C air, not below + 10 ° C component, up to max. + 25 ° C air temperature
Drying time 1st + 2nd layer	ca. 3-4 Hours
Walkable	Drying time 2nd layer / can be walked on after approx. 1 day
Laying tiles and slabs	as soon as accessible
Fully resilient	after approx. 3 days
Basin filling	nach cafter approx. 7 days
Temperature resistance	- 20 ° C bis + 80 ° C
Building material class	B2, normally flammable according to DIN 4102

The following applies to all applications: The structure of the sealing system (AIV-F) using the individual components results from the information in the AbP (see the respective chapter).

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