

Ardatec Flexdicht

FLUID SEALING FILM

TECHNICAL DATA SHEET

SMART PRODUCT BENEFIT

- sealing under ceramic floorings
- for the moisture resistance class A0 as per ZDB
- for the strength class A as per ZBD with abP
- easy application with roller
- safe crack bridging
- solvent-free
- ready for use

PRODUCT INFORMATION

Ardatec Flexdicht is a highly-elastic, solvent-free fluid film for sealing of wall and floor surfaces below tiles and plates against non-pressing water. Ardatec Flexdicht is ready mixed and can easily be applied using a roller.

Ardatec Flexdicht is suitable for the moisture resistance class A0 as per ZDB-Technical Information Sheet.

Ardatec Flexdicht has been tested as per „Prüfgrundsätze für flüssig zu verarbeitende Abdichtungsstoffe im Verbund mit Fliesen- und Plattenbelägen, February 2008“. For the strength classes A, as per ZDB-information sheet, according to the Construction products List A, part 2 1.10 (abP), in connection with Ardaflex Flexmörtel, Ardaflex Top and Ardafix Pro permitted by the building code as system adhesives. After curing, Ardatec Flexdicht is watertight, flexible and crack-bridging.

FIELDS OF APPLICATION

Ardatec Flexdicht is used as seamless and joint-less sealing below ceramic floorings and natural stones indoors to protect the substrate against the penetration of water or humidity, e.g. in showers, bathrooms, sanitary facilities, and washrooms.

For sealing below tiles and plates outdoors (balconies, terraces) we recommend our flexible sealing slurry Ardatec 1K Flex und Ardatec 2K Flex.

Ardatec Flexdicht is not suitable for sealing underwater areas. For this purpose we recommend Ardatec Xtrem on the basis of epoxy resin. For sealing of swimming pools, it is also possible to use Ardatec 1K Flex or Ardatec 2K Flex.

Applying Ardatec Flexdicht, wall and floor surfaces can be sealed. The mass is applied as homogeneous layer without pores. After drying of the first coating, the second layer will be applied. In case of critical substrates we recommend reinforcing of the coating by laying in of Ardatape Strong.



SURFACE

The substrates must be solid, dry and free from impurities or separating agents. The following substrates can be sealed with Ardatec Flexdicht: Concrete, masonry as per DIN 1053 flush-joint bonded, plaster of mortar groups II and III, e.g. cement and cement-lime plaster, fully-gypsum and gypsum plasterboards, aerated concrete, light-weight concrete, cement, calcium sulphate bound and mastic asphalt screeds, old tile floorings. Also applicable on heating screed.

SURFACE PREPARATION

Uneven, raw concrete or masonry must be levelled with thin bed mortar Ardafix Pro and addition of 10% of Ardagrip Elastic. Prior to applying Ardatec Flexdicht, absorbent substrates are to be primed with Ardagrip Classic. The primer must be dry before Ardatec Flexdicht is applied. Agitate Ardatec Flexdicht before application.

SURFACE SEALING

Always two layers of Ardatec Flexdicht are applied. We recommend a short-pile roller for the application of Ardatec Flexdicht on wall and floor surfaces.

The second coating may only be applied after the first layer has dried. If the sealing layer shall be reinforced by Ardatape Strong, it will be laid in the first, still fresh coating and the second layer is applied after it has dried through.

PROCESSING

Securing of connecting joints

The sealing layer must be secured in the corners or on the expansion joints using Ardatape 120. The sealing tape is laid in the still fresh coating. The second layer is applied after it has been dried.

Sealing of floor drains

Only floor drains with press-in sealing flange shall be installed. The flange is included in the surface sealing by coating with Ardatec Flexdicht and if necessary, by inserting Ardatape Strong.

Sealing of openings

Openings for installations are included in the surface sealing using Ardatape Wall/Floor. The joints between the openings and the ceramic tiles are filled with a sealing layer of Bostik silicone rubber sanitary – SiliconProfi.

Preparing and laying of tiles and plates

For preparing and laying of tiles and plates on Ardatec Flexdicht in an area not to be permitted by building code, Ardafelx Flexmörtel, Ardaflex XXL, Ardaflex Top, Ardaflex Turbo, Ardafix Flex, Floorflex Classic and Floorflex Rapid will be suitable. Please find the instructions for laying with adhesive mortar in the Technical Data Sheets. Tiles and plates or natural stones can be laid on Ardatec Flexdicht only after its thick layer has dried. After the drying time of the adhesive mortar of 2 to 3 days, the covering materials can be pointed with Ardacolor Premium, Ardacolor Flex or Ardacolor Maxi. Expansion and connecting joints are filled with the sealant Bostik Sanitär-Silicon Profi.

CONSUMPTION

Approx. 1.2 to 1.5 kg/m² Ardatec Flexdicht is required for two layers depending on the roughness of the substrate surface.

STORAGE

In a cool and dry place. Protect it from frost. Shelf life is at least 6 months.

DELIVERY FORM

Ardatec Flexdicht:

Art. No.: 30604954	8-kg-plastic bucket, light grey
Art. No.: 30604959	15-kg plastic bucket, light grey
Art. No.: 30604970	25-kg-plastic bucket, light grey

Ardatape 120 Flex:

Art. No.: 30180245	1 Roll (50m x 120 mm), light grey
Art. No.: 30180244	1 Roll (10 m x 120 mm), light grey

Ardatape Strong:

Art. No.: 30822404	1 Roll (50 m x 100 cm), light grey
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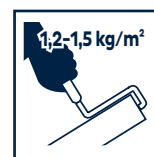
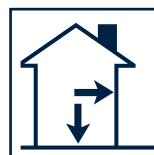
Ardatape Wall/Floor:

Art. No.: 30822399	25 pcs./Carton (120 x 120 mm)
Art. No.: 30822397	10 pcs./Carton (425 x 425 mm)

Ardatape Inside/Outside:

Art. No.: 30822649	Inside Corner
Art. No.: 30180247	Outside Corner

TECHNICAL SPECIFICATIONS AND DATA	
Base	Synthetic dispersion, modified
Colour	Light grey
Density	approx. 1.5 g/ml
Elongation at break	approx. 400 %
Tensile strength	1.5 N/mm ²
Crack-bridging	> 0.4mm, fulfilled as per ZDB/DIBt/ETAG 022
Reservoir test as ETAG 022	Fulfilled and passed
Water vapour diffusion resistance μ	3150
SD-value	2.2 m at 0.7 mm layer thickness
Consistency	Highly viscous, non-drip
Consumption	approx. 1.2 to 1.5 kg/m ²
Application temperature	not below + 5 °C air, not below + 10 °C component, up to max. 30 °C air temperature
Dry layer thickness	With direct load 0.7 mm (required wet layer thickness approx. 0.9 mm) Min. 0.5 mm (required wet layer thickness approx. 0.7 mm)
Drying time	between the 1st and the 2nd layer approx. 2-3 hours 2nd layer/walkable after approx. 6-8 hours
Laying of tiles and plates	as soon as walkable
Loadable with water	after approx. 3 days
Heat resistance	+ 70 °C
Building material class	B2 – normally flammable as per DIN 4102
Cleaning of tools	Immediately after usage with water



These instructions reflect the extent of our current knowledge and are the result of extensive testing and practical experience. In view of the multiplicity of the possible applications and storage and processing factors over which we have no control, we cannot guarantee good results in each individual case. We recommend you test the product first before final application. Slight discoloration of sealants can occur under UV-radiation. Slight colour differences between the batches are possible through the production process. No liability can be accepted for absolute colour fidelity. Use material of the same charge-number for a building object. Our technical and commercial advisory service will be pleased to answer your queries.

This data sheet supersedes all previous issues.

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Bostik GmbH

An der Bundesstraße 16 · D-33829 Borgholzhausen
Tel.: +49 (0) 5425 801-0 · Fax: +49 (0) 5425 801-140
E-Mail: info.germany@bostik.com
www.bostik.de

BOSTIK HOTLINE

Smart help
+ 49 (0) 5425 801-0

Bostik GmbH

Papierfabrikstraße 1 · A-4600 Wels
Tel.: +43 (0) 72 42 5 30 -10 · Fax: +43 (0) 72 42 5 30 - 12
E-Mail: info.austria@bostik.com
www.bostik.de

