



ARDEX BU 2-K

Liquid Applied Bitumen Waterproofing Membrae

- Crack bridging ability
- Flexible
- High strength
- Easy application
- Fast setting
- Quick resistance to rain
- Excellent adhesion to bituminous and concrete substrates
- Suitable for vertical applications
- High resistance to ageing
- Solvent free
- Suitable to use indoors
- Resistant to aggressive substances in soil



DESCRIPTION

ARDEX BU 2K is a liquid applied two-component, flexible, bitumen waterproofing membrane. Can be applied either with a brush or a trowel.

ARDEX BU 2K features

- High flexibility
- Crack bridging ability
- Easy application
- Excellent adhesion to bituminous and concrete substrates
- Suitable for vertical applications
- High resistance to ageing
- Solvent free
- Resistant to aggressive substances in soil

APPLICATION AREAS

Suitable for both interior and exterior use, can be used for horizontal and vertical applications. To use against moisture and unpressurized water in basements and foundations. It is applied as two coats, depending on the pressure of ground water with or without reinforcement.

- Foundations
- Balconies and garden terraces
- Car parks
- Interior areas like bathrooms
- Over concrete, mineral or cement based screeds and renders, bricks and similar materials.



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EN 15814:2011+A1:2012

52055 ARDEX BU 2K, EN 15814:CB2-W1-C1

Polymer Modified Bituminous Coatings (PMBC) for waterproofing in below ground structures with a thickness of at least 4 mm

| | |
|--|--------------|
| Water impermeability: | : Class W1 |
| Rain resistance: | : Class R2 |
| Crack bridging ability: | : Class CB-2 |
| Water resistance: | : passed |
| Low temperature flexibility: | : passed |
| Dimensional stability at high temperature: | : passed |
| Reaction to fire: | : Class E |
| Compression strength: | : Class C1 |
| Durability of watertightness: | : passed |

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Liquid Applied Bitumen Waterproofing Membrae

SUBSTRATE PREPARATION

Substrate must be solid, load bearing, free from dirt, rust, oil and all kinds of release agents. It can be slightly damp but not completely wet. Cracks and holes between 2 and 5mm's can be filled with the product itself. For thicknesses more than 5mm use a strong repair mortar like ARDEX AR 300 or ARDEX REPMUR-F. Small cavities and the porous structure of the surface may result air bubbles after application. Application of a thin layer of wall rendering/ levelling screed is recommended as precaution. Inner corners can be rounded using the aforementioned repair mortars or ARDEX BU-2K. The surface should be primed using ARDEX BU-2K diluted with water to the ratio of 1:5

APPLICATION

First mix the bitumen emulsion in the bucket with a low speed mixer. After 1-2 minutes of mixing add the reactive powder subsequently. Mix vigorously for another 2-3 minutes until the material gets a uniform consistency. Working time is apporixmately one hour at 20°C.

Higher temperatures shortens the working time, whereas lower temperatures elongate it.

ARDEX BU 2K is applied at least 2 coats preferably with a reinforcement using a brush or trowel. Wait for complete drying of previous coats before applying subsequent ones. Reinforcement should be applied between two coats.

The use of reinforcement improves tensile and tear strength of the membrane. It also simplifies thickness adjustment of the material. Reinforcement is essential for vent, wall and drainage connections. They are also essential for repairing old membranes.

Setting will take between 1 and 3 days based on application thickness and ambient conditions.

NOTES

The surface and ambient temperature must be between 5°C and 30°C. Protect the surface from water, rain and frost during application and drying. The surface can be damp but not wet.

Protect the surface from exposure of sun and wind during and after application. The product must not be used as final coating and should be protected from impact and other external factors using an adequate covering. (DIN 18195-10).

The product can be used in particular for bonding hard polystyrene insulation plates used for protection of the foundations.

Air bubble formation of various sizes is possible after application as a result of heating and expansion of air and/or moisture. These bubbles will dissapear by time with drying and diffusion.

The values presented in material consumption table on next page is the minimum thicknesses. Never apply beyond these thickness levels. Check the application thicknes periodically. As an example, for a 100m² area, measure thickness of at least 20 different sampling points.

Before applying subsequent coats wait for drying of preceding coats. Drying time is dependent to the substrate and ambient conditions.

Appropriate dilatation tapes, reinforcements and/or cuffs should be used at dilations and joints. ARDEX BU series products are not suitable for industrial flat roof coverings and application in tanks.

PRECAUTIONS

Powder compnent contains cement. Irritant. It irritates the skin. It is seriously dangerous for the eyes. Keep out of the reach of children. Do not inhale dust. Avoid contact with eyes or skin. In case of contact, wash immediately with plenty of water, in case of contact with eyes, consult a doctor. Wear appropriate safety gloves and safet glasses In case of swallowing, immediately get medical help and show the packaging label.

Technical Data According to ARDXE Quality Standards

| | |
|---|--|
| Solid contents: | %68 |
| Bulk density: | approx. 1,35 kg/lt |
| Fresh weight of mortar: | approx. 1,25 kg/lt |
| Loss of volume after setting | approx. %16 (≤ %50) |
| Material requirement: (Wet) | Approx. 1,50 kg/m ² (Approx 1,25mm wet thickness for 1mm dry thickness) |
| Color: | Brown/Black |
| Consistency: | Pasty |
| pH: | 10.5 - 11.0 |
| Crack bridging: | ≥ 2mm (For ≥3mm dry thickness according to EN 15812) |
| Rain resistance: | ≤5 hours (≥3mm thickness, 23°C / %50 rh.) |
| Waterproofing: | ≥ 0,075 N/mm ² (0.75 bar) for 5mm thickness |
| Compressive strength: | ≥ 0,030 MN/mm ² (≥ 5mm reinforced dry thickness) |
| Cold bending: | No cracks at 0°C (According to DIN 52123, article 12') |
| Heat resistance: | 70°C (DIN 52123) |
| Water resistance: | Resistant (DIN EN ISO 2812-2) |
| Envrionment and surface temperature required for application: | Between 5°C and 30°C |
| Initial setting time: | ≥6 hours depending on environment conditions |
| Setting time: | 1-3 days per layer depending on environment conditions |
| Full curing time: | At least 7 days depending on environment conditions |
| Cleaning: | Fresh state: water Dry state: Solvent or gasoline Contact with skin: Hand cleaning agents |
| Packaging: | 30 kg bucket |
| Storage and Shelf Life | Can be stored approximately 12 months in its original unopened package in dry and cold conditions. Protect against sunlight and frost. |