

Data Sheet



ROKOVODOFLEX 2K

Product Characteristics

A two component flexible cementitious waterproof membrane for the treatment of concrete and other substrates against pressurized water. It is also suitable for sealing against oil. It's a gray loose mixture of sand, cement and organic additives (component A) and synthetic fluids (Part B) developed in research laboratories of ROKOSPOL. By mixing the two components an easily processable smooth mortar is achieved, which is very well applied to horizontal and vertical surfaces with a thickness up to 2 mm in one coat. Because it contains a large proportion of a special synthetic resin, it has very good adhesion to concrete and other substrates such as masonry, drywall, wood, plaster and on most plastics and metals. The elastic layer is resistant to penetration of sulfur dioxide, carbon dioxide, sulphates, chlorides and most minerals and other oils.

Specific Qualities

Flexible waterproofing coating with excellent mechanical and chemical properties. It is especially suitable for outdoor use, where it excels thanks to its high elasticity even at very low temperatures.

Application

As a flexible waterproof membrane on concrete structures that are dynamically loaded, for eg. waterproofing of swimming pools, water tanks, reservoirs, waterproof layer for roofs, terraces and balconies. Also used as elastic waterproofing under ceramic tiles in areas with static or dynamic loads, in areas with water penetration of soil both in the interior and in the exterior, waterproof protective coating for concrete retaining walls, elastic waterproof layers that have visible surfaces consisting of plaster with hairline cracks, flexible waterproof coating for concrete surfaces exposed to chemical stress from de-icing salts, sulphates, etc., waterproof flexible insulation in engine rooms, sumps, etc., wherever leaks may form minerals or other oils.

Technical data:

PRODUCT FEATURES:

| | Part A | Part B |
|---------------|--------------------------------|--------------------------------|
| Consistency | Liquid | Powder |
| Color | Light gray | White |
| Density | 1380 kg/m ³ approx. | 1050 kg/m ³ approx. |
| Solid content | 100% | 45% approx. |
| Shelf Life | 12 months in a cool, dry place | 12 months in a cool, dry place |

APPLICATION DATA

At +23 ° C and 50% RH. Humidity

| | |
|--|--|
| The mixing ratio | 100 parts of component A to 33 parts of component B (weight parts) |
| Consistency of mass | Paste |
| Density | 1298 kg/m ³ approx. |
| PH of material | 12 approx. |
| Time to work with material before setting | 60 min |
| Temperature for application | +5 ° C to +35 ° C |
| Drying time for one layer of 2mm at 20 °C and 65% rel. air humidity. | Approx. 4-5 hours |
| Full load | After approx. 5 days |

FINAL PERFORMANCE

| | |
|-------------------------------|--|
| Moisture resistance | Excellent |
| Temporal stability | Excellent |
| Resistance to oils | Excellent |
| Resistance to salts | Excellent |
| Temperature resistant from | -50 ° C to +148 ° C |
| UV resistant | Min. 750 hod. In QUV panel (acc.to CSN EN ISO 11997-2) |
| Adhesion (on a concrete base) | |
| After 28 days | Min 0.8 MPa |
| Strength at break point | Min 0.9 MPa at 23 ° C and min. 2.5 MPa at -20 ° C |
| Elongation at break point | Min 40% Lo at 23 ° C and min. 30% at -20 ° C |
| Water absorption | Max 10% (CSN EN ISO 62) |
| Waterproofing | Max. 0,1 l/m ² /30min (CSN 73 2578) |
| Pressure resistance | height of a water column 80m |

Surface Preparation:

The parameters of the surface can significantly affect mass consumption, reliability, isolation quality and ease of application. Examples of suitable materials are:

- Smooth, solid and cohesive cement render applied to walls made of bricks or blocks.
- Construction of concrete and mortar, cement-bonded
- Well-made brickwork
- Well-made ceramic tiles
- Well-made masonry blocks, cement-bonded which have a fixed flat coherent surface

The surface of all materials must be flat, compacted, solid and free of chemical impurities. To remove less cohesive materials from the surface, it is recommended to use sandblasting or high pressure water washing.

All the materials that are commonly used in construction may be regarded as appropriate when the residual moisture and strength are in accordance with the standard. The surface must be clean and free of oil, grease and dust. Cement or concrete surfaces must be free of dust, efflorescence, oils and residues deshaping corrosion. All foreign objects should be removed. Inequality is possible to repair with products ROKOGROUT Thix and ROKOFIN. From wet surfaces excess water must be drained or removed with compressed air. Highly absorbent substrates such as plaster and foundations containing plaster must be free of dust and the under coat should be painted with products ROKOLATEX PUS or ROKOGRUND PROFIL. Proper preparation of the surface is saturated with water, but the surface is dry.

Mixing

Mix Component A Bag (30 kg) ROKOVODOFLEX with 10kg of Component B in a homogeneous, smooth mass. You must use a spiral mixer or special mixing equipment. Mixing should be done so that component A is slowly added to component B. After approx. 3 to 5 minutes, the product should be thoroughly stirred again. When stirring, it is necessary to ensure that the mixture does not have air intake, and that the mixture is well stirred at the bottom and at the walls and that it is without any lumps. The prepared compound can now be used and workability is about 60 minutes in standard climatic conditions (20 ° C, 60% rel. Atmospheric humidity).

Application of ROKOVODOFLEX 2K

ROKOVODOFLEX 2K is applied with a suitable trowel. One layer should not have a greater thickness of 2 mm. Additional layers can be applied after the previous layer has dried, which under normal conditions takes about 4-5 hours. Where the structure is dynamically loaded, or where there are risks of hairline cracks, it is appropriate to incorporate into the second layer 4 x 4 mm glass mash. After application of the second and subsequent layers, the surface should be smoothed with a wilting trowel.

Gluing of tiles

On the surface that has been formed with ROKOVODOFLEX 2K, it is only possible to glue tiles once the product has been perfectly matured, which under normal conditions is about 5 days. Gluing should be performed with flexible glue ROKOFROSTFLEX 2K. Due to the elasticity of the substrate, it is recommended to leave a wider gap. For grouting, ROKOKERAM C or ROKOGLEX EPO or 2K should be used.

Warning

ROKOVODOFLEX 2K cannot be applied to surfaces exposed to foot traffic or inducing mechanical stress in general and other mechanical abrasive wear. For mechanical effect transfer, the substrate should be coated with an insulating layer followed by a compatibility layer (protective, functional, wear-composition ensuring coherence with the substrate + coating). The dimensions and other parameters of the top layer should be chosen with regard to the intensity of the load during the use of the structure as a whole.

ROKOVODOFLEX 2K should not be applied at temperatures below +7 ° C. Do not add more water, sand, cement or other substances to the substrate. At temperatures around +20 ° C, it is not necessary to use any special measures, only at very high temperatures the substrate should not be applied with direct sunlight. During very high temperatures or during windy weather, the substrate should be protected against rapid drying after by covering it with a cloth or plastic film.

Cleaning

Dirty tools, skin and clothing should be washed with water before drying. After drying, it is very difficult to remove the product and can usually be done only mechanically. In extreme cases, you can use some type of solvent such as alcohol.

Consumption

Consumption of the mix is determined by the type and quality of the substrate and is usually 1.6 to 1.7 kg / m².
(Note: Application)

Packaging

ROKOVODOFLEX 2K is supplied in 20 kg set (15 kg + 5 kg component A + component B)

Storage

Store in a dry, sheltered place in sealed original packaging at temperatures between +5 ° C - +30 ° C for up to 12 months.

Disposal

The remaining material should be mixed with water and allowed to harden and disposed as ordinary rubble.

Notice

Information stated in this datasheet is intended only for advisory purposes and is not exhaustive. In the case you are going to use the product for a purpose different from that described here, first ask for a written statement.

Without this statement we will bear no responsibility for the paint quality and/or losses and damages given by any incorrect application. In addition, we also refer to our Trading Conditions.

(1.2.2013 VCH,)