

IZOLASTIC flex



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WATERPROOFING

BETOSAN

Single-component elastic water-proofing material

1. Product characteristics

Single-component, permanently elastic water-insulation compound, consisting of a water-polymer dispersion of micro mineral aggregates, special additives and pigments. Meets the requirements of EN 1504-2.

- supplied as single-component
- ideal workability, applied by brush, roller or an asphalt broom, possibly by a spray gun
- absolutely watertight, washable
- resistant to water with high carbonate content
- perfect adhesion to base, high elasticity and ductility even under below-zero temperatures
- permanently UV radiation resistant
- able to bridge cracks
- permanently frost resistant
- can be stressed within 24 hours after the application
- as required by Act No. 258/2000 Coll. and Ministry of Health Decree No. 38/200 Coll. is eligible for direct contact with food

2. Use

IZOLASTIC flex is a single-component, permanently elastic watertight coating suspension intended for water-insulation layer making or renewal. Suitable base is a concrete or compact cement plasters, or it can be used over bitumen strips, metal sheeting and other base materials. After aging it is permanently resistant to water and the weather effects.

3. Physical and mechanical parameters

Requirements / results according to EN 1504-2

| | Testing method | Requirements | Results |
|--|----------------|---------------|----------|
| Water vapor permeability | EN ISO 7783-1 | Class I < 5 m | Complies |
| Water penetration rate in liquid stage (kg/m ² h ^{0.5}) | EN 1062-3 | w < 0.1 | < 0.02 |
| Adhesive Bond (MPa) | EN 1542 | > 1.0 | > 1.0 |
| Crack-bridging ability | EN 1062-7 | A3 | Complies |

Physical and mechanical parameters

| | |
|---|------------|
| Color of the coating (according to Betosan sampler) | White/grey |
| Content of non-volatile sub-stances (%) | 60 ± 1 |
| Minimum film-forming temperature (°C) | + 5 |
| Coat adhesion to base *) (MPa) | > 1.0 |
| Tensile strength (MPa) | > 1.0 |
| Elongation (%) | > 170 |
| Diffusion resistance to water vapor S _d H ₂ O** (m) | 4.2 ± 0.2 |
| Water-tightness 120 min (l/m ²) | 0.0 |

*) blasted concrete **) layer thickness: 400 µm

4. Test certificates

Meets the requirements of EN 1504-2.

The product is certified according to Act No. 22/1997 Coll. and Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR). Continuous independent production quality control is provided by AZL 1687 LABBET®. Supervision of quality management, environmental and OSH systems is performed by Certification Body No. 3029.

5. Instruction for preparation and application

The Base must be compact, free of dirt, formwork substances, cement milk and/or other older and degraded coating. Local defects (blisters, holes, larger cracks, etc.) must be caulked. Local shape changes should not have sharp edges. For base with cracks, working spaces, or other openings, it is advisable to reinforce **IZOLASTIC flex**



using the **IZOLASTIC flex TK**, and/or the **IZOLASTIC flex TP** tape. Both these materials are supplied by BETOSAN as part of the system.

Preparation. **IZOLASTIC flex** is supplied as a single-component mix. Preparation consists of mixing with a suitable manual or slow-revolution mechanical mixer. The coating substance should be protected against drying in a closed container.

Application. The coating is applied to prepared base using a brush, roller, bitumen-application brush, or a spray gun. The coating should be applied in two to three layers, depending on base material quality and exposure. 12 to 24 hour intervals between individual coats should be allowed. Application should be crisscross (brush or roller movements in two perpendicular directions). Where the base material has defects, reinforce the penetration using the **IZOLASTIC flex TK** cloth or the **IZOLASTIC flex TP** tape. Drying time is approximately 4 hrs.

Neither temperature of the base nor temperature of ambient air shall be below + 5°C and above + 35°C.

6. Specific consumption

For a standard two-coat system, the specific consumption amounts to 1.6 kg/m², while the thickness of the waterproofing membrane is up to 1mm. For a three-coat system, the specific consumption is 2.0 – 2.5 kg/m².

7. Packaging and storage

IZOLASTIC flex is supplied in PE buckets of 10 kg net capacity. The product should be stored in original packing at temperatures from +5 to +35 °C. Shelf life of the product is 6 months.

8. Health protection at work

Work with waterproofing coating **IZOLASTIC flex** does not require any special hygienic precautions. The material does not contain harmful substances. Standard rules of hygiene are to be complied with at work; gloves and protective clothing should be worn. Upon contact with skin and/or mucous membranes the affected areas should be washed or rinsed with running water. Medical help must be sought in case of accidental ingestion.

Issued MSDS meets the requirements of EC-Regulation 1907/2006, Article 31.

Because the product meets the criteria for classification as hazardous, it is necessary to provide the recipient or carriers with MSDS.

In countries where regulation REACH (para. 33.1): EU regulation on chemicals and their safe use (REACH: EC 1907/2006) is valid, professional users and distributors must be provided with following information automatically and without request:

This product is subject to Regulation (EC) No. 1907/2006 (REACH). It does not contain any substances that could be released from product under normal or reasonably foreseeable conditions of use. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.

Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from candidate list published by the European Chemicals Agency in concentrations above 0.1% (w / w).

9. Waste disposal


During disposal of contaminated packages or clearing debris from product, it is necessary to follow the Act No. 185/2001 Coll. on waste, as amended.

10. Important notice

All information mentioned above, especially advice for processing and application of our products, is based on our knowledge from the development of chemical products and on years of experience with applications in practice at standard conditions, and proper storage and use. Due to the differing conditions during processing, high count of products, varying nature and modifications of base and other external influences, the procedure based on the information provided or on other written or oral recommendations, may not always ensure satisfactory working results. BETOSAN s.r.o. assumes no liability for provided advice or recommendation. The applicator must prove that he submitted complete information on time and in writing which is necessary for a proper detailed assessment by BETOSAN s.r.o. The applicator must test the suitability of the products for the intended application. Proprietary rights of third parties, above all, must be taken into account. All received orders are subject to our current "General sales and delivery conditions". Please always make sure that you follow the most recent issue of the Technical Data Sheet. It is available, along with other information, at our Technical Department or at www.betosan.cz.



11. CE marking

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|---|-----------|
|  1301 | |
| BETOSAN s.r.o. Na Dolinách 28, 147 00 Prague 4 | |
| 08 | |
| 4-11/072013 | |
| ČSN EN 1504-2:2004 | |
| IZOLASTIC flex Elastic water-proofing material | |
| Water vapor permeability | Complies |
| Water penetration rate in liquid stage (kg/m ² h ^{-0.5}) | < 0.02 |
| Adhesion bond (MPa) | > 1.5 |
| Crack-bridging ability | A3 |
| Dangerous substances | meets 5.4 |

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