



Single-component waterproofing material

1. Product characteristics

Single-component, permanently flexible waterproofing material composed of aqueous polymeric dispersion of fine-grained mineral fillers, special additives and pigments. Meets the requirements of EN 1504-2.

- supplied as single-component
- ideal workability, applied by brush, roller or asphalt broom, possibly a spray gun
- completely waterproof and permanently frost-resistant
- perfect adhesion to bituminous stripes, asbestos-concrete, metal sheets or polyurethane
- high flexibility and ductility even under below-zero temperatures
- permanently UV radiation-resistant
- crack-bridging ability
- attains its full performance properties within 24 hours

2. Use

ELASTOFIN is a single-component, permanently flexible paint suspension designed for concrete base protection. Can be also used for water-proofing roof coverings on horizontal or slightly sloped roofs. Bases suitable for treatment include all kinds of bituminous roof coverings, asbestos sheets, galvanized steel sheets or sprayed polyurethane coatings. After curing, the coating can be walked upon and permanently resists water and all atmospheric effects. The application must conform to the respective provisions of ČSN 73 1901, Annex D, and the specific structure of the roof and its condition as well.

3. Physical and mechanical parameters

Requirements / results according to EN 1504-2

	Testing method	Requirements	Results
Permeability to CO ₂	EN 1062-6	$s_D > 50 \text{ m}$	$s_D > 110 \text{ m}$
Permeability to water vapor	EN ISO 7783-1	Class I: $s_D < 5 \text{ m}$	$s_D < 3 \text{ m}$
Capillary absorption and permeability to water	EN 1062-3	$< 0.1 \text{ kg/m}^2\text{h}^{0.5}$	$< 0.05 \text{ kg/m}^2\text{h}^{0.5}$
Adhesion (pull-off test)	EN 1542	$\geq 0.8 \text{ MPa}$	$\geq 1.3 \text{ MPa}$
Adhesion after thermal compatibility Freeze salt cycling with de-icing immersion	EN 13687-1	no bubbles, cracks and delamination $\geq 0.8 \text{ MPa}$	pass $\geq 0.9 \text{ MPa}$
Crack-bridging ability	EN 1062-7		Class A3 (-20 °C)
Artificial weathering	EN 1062-11	no blistering, cracking and flaking	pass

Physical and mechanical parameters

Color of composition	Grey/white
Content of non-volatile sub-stances (%)	60 ± 1
Minimum film-forming temperature (°C)	+ 5
Tensile strength (MPa)	> 1.5
Elongation (%)	> 150
Water-tightness 120 min (l/m ²)	0.0

4. Test certificates

Meets the requirements of EN 1504-2.

The product is certified according to Act no. 22/1997 Coll. and the Regulation (EU) no. 305/2011 (CPR).

Continuous independent control of production quality ensures the AZL 1687 LABBET®.

Supervision of quality management system, relation to the environment system and occupational health and safety system performs the certification body no. 3029.

5. Instruction for preparation and application

The base must be adequately cohesive, free of impurities and possible residual degraded coatings. Local defects (blisters, holes, major cracks) should be repaired, for example by filling in with **ELASTOFIN** mixed with two or three parts of a suitable filler, such as finely ground limestone and the like. Local uneven spots of the surface should be free of sharp edges. In case of cracks or joints in the base, **ELASTOFIN** should be reinforced with



ELASTOFIN TK fabric or **ELASTOFIN TP** waterproofing tape. The two materials are supplied by the BETOSAN company as a part of the waterproofing system.

Preparation of the waterproofing material. **ELASTOFIN** is supplied as a single-component system. Its preparation for application consists simply of mixing it with a suitable manual mixer or a slow-speed electric propeller mixer. The mixed material should be protected from drying by sealing the vessel.

Application. The coating is applied on a suitably prepared base with a brush, roller or a spray gun, in two or three layers in dependence on the condition of the base and the exposure, at intervals from twelve to twenty-four hours. The application should be done cross-wise, by drawing the brush or roller in mutually perpendicular directions. At places where the base is bearing defects the coat should be reinforced with **ELASTOFIN TK** fabric or **ELASTOFIN TP** tape. The drying-out takes about 4 hours.

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 1.2 kg/m², while the thickness of the waterproofing membrane is up to 1mm. For a three-coat system, the specific consumption is 1.7 kg/m².

7. Packaging and storage

ELASTOFIN 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 **FLEXICOAT fixativ** 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

 1301	
BETOSAN s.r.o. Na Dolinách 28, 147 00 Prague 4	
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4-3/072013	
ČSN EN 1504-2:2004	
ELASTOFIN Flexible waterproofing material	
Permeability to CO ₂	s _D > 110 m
Permeability to water vapor	class I: s _D < 3 m
Capillary absorption and permeability to water	< 0.05 kg/m ² h ^{-0.5}
Adhesion (pull-off test)	≥ 1.3 MPa
Adhesion after thermal compatibility Freeze salt cycling with de-icing immersion	pass ≥ 0,9 MPa
Crack-bridging ability	Class A3 (-20 °C)
Artificial weathering	pass
Reaction to fire	euroclass A2
Dangerous substances	comply with 5.3

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BETOSAN s.r.o., Na Dolinách 28, 147 00 Praha, Czech Republic
Business and technical office Nová cesta 291/40, 140 00 Prague 4, Czech Republic
Tel./fax.:+420 241 431 212, tel.:+420 241 431 215
E-mail: praha@betosan.cz, www.betosan.cz



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WATERPROOFING

BETOSAN