WATERFLEX



Two-component permanently flexible coating material for cementation of adhesive-type facing

1. Product characteristics

Two-component permanently flexible bonding agent consisting of dry component on inorganic basis and water-soluble modifies polymer dispersion. Meets the requirements of EN 12004 and EN 14891.

- supplied in specified rate of particular components, very good workability
- perfect adhesion to base
- permanently resistant to high water overpressure
- highly flexible; bridges active cracks
- permanently frost-resistant
- permanently resistant to UV radiation and atmospheric effects
- ensures flexible anchoring of glued cladding elements to base
- eco-friendly, harmless from public health point of view

2. Use

WATERFLEX is a two-component permanently flexible polymer cement bonding agent intended for cementation of various facing elements, glass ones in particular, intended for inside and outside use. It is used for sealing and adhesive interlayer under special facing in water-supply engineering, waste water treatment plants, food industry and special hydrotechnical construction works in particular. It is also intended for facings in bathrooms and swimming pools where it is necessary to ensure with high certainty permanent water tightness and adhesion of the facing.

3. Physical and mechanical parameters

Requirements / results according to EN 12004

		Testing method	Requirements	Results
Adhesion to base (MPa)	initial	EN 1348	> 0.5	> 1.6
	after water immersion	EN 1348	> 0.5	> 1.2
	after heat aging	EN 1348	> 0.5	> 1.5
	after freeze-thaw cycles	EN 1348	> 0.5	> 1.1
Open time: adhesion to base (min)		EN 1346	≥ 20	≥ 20
Slip (mm)		EN 1308	< 0.5	< 0.5
Highly deformable adhesive: sag (mm)		EN 12002	≥ 5	≥ 5
Reaction to fire		EN 13501-1	Е	E
Content of Cr ⁶ (%)		EN 196-10	≤ 0.0002	≤ 0.0002

Physical and mechanical parameters

Color - dry component - liquid component	white, grey white	
The minimum film forming temperature (°C)	> 1	
Tensile strength (MPa)	> 1.7	
Elongation (%)	> 25	
Water tightness (under both negative and positive effect of water pressure)	> 8 bars (80 m of water column)	
Elasticity modulus (GPa)	0.1	

4. Test certificates

Meets the requirements of EN 12004 and EN 14891. 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

<u>Base.</u> Any incoherent, loose, weatherworn or otherwise visibly damaged concrete shall be completely removed from the surface of the base. The concrete surface cannot be contaminated by sub-stances negatively effecting adhesion to the base (fats, greases, oils, etc.). Tensile strength of concrete surface layers shall be 1.5 MPa at least. Existing caverns or any other surface defects shall be filled with the **MONOCRETE PPE TH** rehabilitation mortar.

<u>Preparation of adhesive bonding agent.</u> **WATERFLEX** is supplied in specified rate of dry and liquid components which amounts to 2.5: 1 weight ratio. The preparation itself is as follows: the appropriate quantity of the dry component is gradually added to the constantly stirred liquid component until mushy consistency fit for application is reached. Depending on used application method or use, up to 10% of water can be added. The mixture shall be perfectly homogenized in case of adjustment of consistence of the bonding agent.

<u>Workability</u> is max. 90 minutes under 20 °C and relative humidity 50 - 70%. The prepared bonding agent shall be suitably protected against desiccation.

Neither <u>temperature of the base</u> nor temperature of ambient air shall be below + 5 °C and above + 30 °C. <u>Application of the bonding agent</u> and execution of the facing itself is conducted according to the special technological regulation.

6. Specific consumption

The adhesive layer, approximately 1mm thick, requires application of 1.6 - 2.0 kg/m² in dependence on roughness of the base. The recommended layer of the bonding agent depends on the type of facing used and its exposition.

7. Packing and storage

The dry component is packed into 25-kg paper bags with inside PE spraying. The liquid component is packed into PE buckets with net content 10 liters. During transport and storage the **WATERFLEX** dry component shall be effectively protected against moisture. The liquid component shall be protected against freezing. The shelf life of the product in original intact packing is 9 months for the dry component and 9 months for the liquid component. After the expiration of min. shelf life, which is stated on the packaging, ingredients are not fully effective at reducing chromium VI below 2 ppm.

8. Health protection at work

No extraordinary sanitary measures are necessary while working with the two-component adhesive bonding agent **WATERFLEX**. It is necessary to avoid particularly contamination of eyes and mucous membranes because the product (dry component) contains alkaline components.

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 are orders 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











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BETOSAN s.r.o. Na Dolinách 28, 147 00 Prague 4				
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EN 12004:2007+A1:2012				
4-10/072013				
WATERFLEX permanently flexible coating material for cementation adhesive-type facing				
Adhesion to base (MPa)	initial	> 1,6		
	after water immersion	> 1,2		
	after heat aging	> 1,5		
	after freeze-thaw cycles	> 1,1		
Open time: a	≥ 20			
Slip (mm)	< 0,5			
Highly deform	≥ 5			
Reaction to fi	E			
Content of C	≤ 0,0002			

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