

Chemically resistant waterproofing coating suitable for direct contact with potable water

1. Product characteristics

Two-component permanently elastic waterproofing coating consisting of an inorganic based dry component and water soluble modified polymer dispersion. Meets the requirements of EN 14891.

- supplied in specified rate of components
- enhances the concrete resistance to various aggressive liquids, it is resistant to combined effect of frost and de-icing salts
- very good workability
- can be applied on wet substrate
- perfect adhesion to base
- permanently resistant to high water overpressure
- highly elastic
- approved for direct contact with drinking water according to Act No. 258/2000 Coll. and Ministry of Health Decree No. 409/2005 Coll.

2. Use

COROFLEX is a two-component permanently elastic polymer cement sealing coating in-tended for water proofing of diverse concrete and reinforced concrete construction elements. It is used for surface sealing of concrete constructions in hydro-technical and water works etc. It can be also used as coating for water tanks or drinking water piping. It can be used a sealing layer on cohesive lime-cement plasters, walls made of porous concrete panels or bricks, on plasterboard and other load-bearing surfaces. It proved well as a sealing layer under tile covering or another floor finishes in bathrooms, pools, water tanks etc. It has good adhesion to metal bases, which are protected by its alkalinity against start-up of corrosive processes.

3. Physical and mechanical parameters

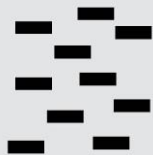
Requirements / results according to EN 14891

		Testing method	Requirements	Results
Adhesion to base (MPa)	Initial	EN 14891	> 0.5	> 0.5
	After contact with water	EN 14891	> 0.5	> 0.5
	After aging in warmth	EN 14891	> 0.5	> 0.5
	After thawing cycles	EN 14891	> 0.5	> 0.5
	After contact with lime water	EN 14891	> 0.5	> 0.5
Water-tightness		EN 14891	No penetration	No leakage
Crack bridging ability under normal conditions		EN 14891	> 0.75	NPD

Physical and mechanical parameters

Color - dry component - liquid component	Non-standard grey white
Color of coating *)	grey
Bulk density of dry component (kg/m ³)	1 550 ±50
Minimum film-generating temperature of liquid component (°C)	> 1
Tensile strength (MPa)	> 1.5
Yield ability (%)	> 30
Vapor resistance R _D ^{H₂O} (m)	< 4
Water-tightness (under both negative and positive action of water pressure)	> 8 bars (water column - 80 m)

*) In case of application on larger surfaces color unevenness can occur in dependence on absorbance of the base.



4. Test certificates

Meets the requirements of 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

Base. Any incoherent, loose, weatherworn or otherwise visibly damaged concrete shall be completely removed from the base surface. The concrete surface cannot be contaminated by substances negatively effecting adhesion to the base (fats, greases, oils, etc.). The concrete surface must not be covered with dust. Tensile strength of concrete surface layers shall be 1.5 MPa at least. Caverns and other surface damages, if any, shall be filled with the repair mortar **MONOCRETE PPE TH**. The base shall be penetrated with **DENSOCRETE 222** diluted in the ratio approximately 1 : 5 in dependence on the absorbance of the base. In case of exterior application, the underlying layers shall be freeze-thaw resistant.

Preparation of waterproofing coating. **COROFLEX** is supplied in specified rate of dry and liquid components which amounts to 2.8 : 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 additional thinning of the coating.

Workability is max. 60 minutes at 20 °C and relative humidity 50 - 70%. The prepared composition shall be suitably protected against desiccation.

Neither **temperature of base** nor **temperature of ambient air** shall be below + 5 °C and above + 30 °C.

Water proofing coating is applied by a brush or roller coating in two or three layers at least. Layers should be applied crosswise (brush strokes would be superposed). The second and third layer can be applied after setting of the previous one i.e. approximately after 24 hours. The coating exposed to pressure water shall be at least 1.5 mm thick. Minimal thickness 1 mm can be used in other cases. In corner, edge or base dilatation areas, it is necessary to combine **COROFLEX** with **WODAFLEX TH** waterproofing coating.

COROFLEX cannot be considered an aesthetic surface finishing.

6. Specific consumption

Specific consumption of the water proofing coating amounts to 1.6 ÷ 2.0 kg/m² at 1 mm in dependence on surface roughness and absorbance.

7. Packing and storage

The dry component is packed into PE-lined paper bags of 25 kg. The liquid component is packed into PE pails of 9 liters. During transport and storage the **COROFLEX** dry component shall be effectively protected against moisture. The liquid component shall be protected against freezing. The storage life of the product in original intact packing is 9 months for the dry component and 9 month 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 has to be taken while working with the **COROFLEX** two-component waterproofing coating. 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 (par. 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. Pro-

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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EN 14891:2013/AC		
COROFLEX Chemically resistant waterproofing coating		
Adhesion to base (MPa)	Initial	> 0.5
	After contact with water	> 0.5
	After aging in warmth	> 0.5
	After thawing cycles	> 0.5
	After contact with lime water	> 0.5
Water-tightness		without leakage
Crack bridging ability under normal conditions		> 1 mm

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