

## One-component water-soluble coating composition

### 1. Product characteristics

One-component coating penetration composition on the basis of acrylate-copolymer dispersion with admixture of special additives. Meets the requirements of EN 1504-2.

- supplied in optimum consistence fit for direct application
- has extremely low resistance to water vapor penetration
- has enhanced resistance to carbon dioxide penetration
- generated coating film is permanently water-resistant, resistant to alkaline environment and UV radiation
- permanently protects concrete against aggressive effects of acid components of atmosphere and operating media

### 2. Use

**BETOKRYL W** is one-component water-soluble coating composition, which is intended especially for external surface treatment of concrete and reinforced concrete, lime-cement and cement plasters, lightweight building materials, wood, pressed fiberboards, asbestos cement, bases both inside and out-side.

### 3. Physical and mechanical parameters

Requirements / results according to EN 1504-2

	Testing method	Requirements	Result
Water vapor permeability	EN ISO 7783-1	Class I < 5 m	complies
Carbon dioxide permeability	EN 1062-6	> 50 m	complies
Water penetration rate in liquid stage (kg/m <sup>2</sup> h <sup>-0.5</sup> )	EN 1062-3	w < 0.1	< 0.1
Adhesive Bond (MPa)	EN 1542	> 1.5	> 1.5

### Physical and mechanical parameters

Color of composition	according to RAL sampler
Density (kg/m <sup>3</sup> )	1 230 ± 25
Viscosity (mPa.s) at 25 °C	6 500
Drying out – stage 1 – stage 5	ca. 3 hours ca. 22 hours
R <sub>d</sub> <sup>H2O</sup> (film thickness 100 □m / m)	0.25
R <sub>d</sub> <sup>CO2</sup> (film thickness 100 □m / m)	> 50

### 4. Test certificates

Meets the requirements of EN 1504-2, annex ZA and TP ŘSD Sec. 31. and TP SSBK III.

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.** The cement milk and any incoherent, loose, weatherworn or otherwise visibly damaged layer of the plastering system shall be removed from the surface of the treated base. The treated surface cannot be contaminated by substances negatively effecting adhesion to the base (fats, greases, oils, etc.). The concrete shall mature at least 14 days. Tensile strength of surface layers of the plastering system inside and outside shall be at least 0.1Mpa in interior and 0.2MPa in exterior. When the coat is applied, the new plastering system shall be 28 days old at least.

**Preparation of penetration coat.** The penetration composition is properly mixed and homogenized before application itself. The coating composition doesn't require any further dilution, but it is possible to adjust the consistency by adding a small amount of clear water mixing properly, if needed.

**Workability.** Workability of the penetration coat is unlimited. The penetration coat shall be efficiently protected against desiccation.

Neither temperature of the base nor temperature of ambient air shall be below + 10 °C and above + 30 °C.

**Coating application.** The first step is the surface penetration by **BETOKRYL fixativ W** – a penetration and anchoring coating. The penetration coat is applied preferably by a roller or, possibly, a brush in quantity amounting to 100 - 150 g/m<sup>2</sup> in dependence on absorbance of the base. In case of larger surfaces it is practical to apply

**BETOKRYL fixativ W** by spraying using some convenient airless devices. After drying out (according to temperature, minimum 3 hours) undiluted **BETOKRYL W** is applied in two layers, again preferably by a roller, or coated in quantity amounting 200 – 250 g/m<sup>2</sup> in one layer. When applying by spraying it is desirable to adjust the consistency by adding water in amount up to 10%. At least 4 hours interval is necessary before applying next layer.

## 6. Specific consumption

Spreading capacity (specific consumption) of the penetration coat **BETOKRYL W** amounts to 0.20 ÷ 0.25 kg/m<sup>2</sup> in dependence on base roughness

## 7. Packaging and storage

**BETOKRYL W** is packed into 10 kg PE buckets. The storage life of the product in original intact packing is 6 months. During transport and storage **BETOKRYL W** must not be exposed to frost.

## 8. Health protection at work

Work with the penetration system **BETOKRYL fixativ W** requires adequate sanitary measures usual for work with dispersed coating compositions. During application use of common personal protective equipment (mask, rubber gloves) is assumed. In case of accidental affliction of mucous membranes or skin wash thoroughly the irritated place and in case of accidental swallowing immediately search medical help.

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

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. 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](http://www.betosan.cz).



## 11. CE marking

 1301	
<b>BETOSAN s.r.o.</b> Na Dolinách 28, 147 00 Prague 4	
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1301-CPD-0257	
EN 1504-2:2004	
<b>BETOKRYL W</b> <i>Water-soluble coating composition</i>	
Water vapor permeability	complies
Carbon dioxide permeability	complies
Water penetration rate in liquid stage (kg/m <sup>2</sup> h <sup>0.5</sup> )	< 0.1 %
Adhesive bond (MPa)	> 1.5
Dangerous substances	meets 5.4

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CONCRETE REPAIR

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