



Very fine highly chemically resistant coating for concrete surface repairs with XYPEX ADMIX C-1000 admixture

1. Product characteristics

Single-component dry spread coating containing enhancing re-dispersible polymers and sealing admixture XYPEX ADMIX C-1000 that provides high chemical resistance. Meets the requirements of EN 14891.

- enhanced chemical resistance
- seals the concrete surface against oil products
- mixed with water only, good workability
- permanently seals the concrete base due to secondary crystallization in the pore system of a water-bearing concrete
- frost resistant
- good mechanical properties, perfect adhesion to base
- compensated in volume
- 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

COROFIX is a single-component dry fine-grain mortar mix intended especially for repairs and filling of damaged and repaired concrete and reinforced concrete surfaces exposed to higher corrosion stress. It creates an insulation layer on the concrete structure surface, resistant to water, oils, organic solvents, oil products, etc. **COROFIX** spread coating can be covered by any kind of secondary protection in dependence on exposure of the repaired structure.

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

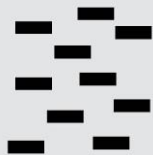
Physical and mechanical parameters

Color	Non-standard grey	
Bulk density of fresh coating (kg/m ²)	2 070 ± 40	
Tensile bending strength (MPa)	7 days	> 3.0
	28 days	> 5.5
Compressive strength (MPa)	7 days	> 16
	28 days	> 25
Frost resistance	> T100	
Filtration coefficient K (ms ⁻¹)	< 2.5x10 ⁻¹²	

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

During the processing of dry mortar mixes **COROFIX** it is generally necessary to comply with the principles contained in the relevant technological process **BETOSAN** for repair of reinforced concrete structures (TP No.1/06).

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, most preferably cleaned with jet wash.

Preparation of spread coating. The coating is prepared by simple mixing with water. During stirring it is necessary to use a low-speed mixer with forced circulation. The recommended mixing ratio is specified in the following table:

	Dry component (kg)	Water (liters)	Applied layer thickness (mm)	
COROFIX	25	5.00 ÷ 5.75	min.2	max.4

Workability of the product is 50 - 60 minutes under 20 °C.

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

Coating application **COROFIX** spread coating is applied either mechanically or manually. Manual application is carried out by screeding. The spread coating is applied in a single layer which thickness should not exceed the value specified in the table above. Surfaces coated with the spread coating shall be efficiently protected against direct sunshine and wind.

Surface finalization is performed after „drying-out“ of the coating most preferably by a dry polyurethane or polystyrene trowel.

Surface treatment. Repaired surfaces shall be properly treated immediately after completion to avoid especially direct exposure to sun, wind effect and other factors accelerating undesirable evaporation of the batch water. It is necessary to properly moisten the repaired places several times a day at least first 3 days after the repair.

6. Specific consumption

Specific consumption of the spread is: 1.6 ÷ 1.7 kg/m² at 1 mm of layer thickness.

7. Packing and storage

The product is packed into 25 kg PE-lined paper bags. **COROFIX** must be efficiently protected against moisture during transportation and storage. Shelf life in undamaged packing is 6 months.

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 **COROFIX** dry spread coating. It is necessary to avoid particularly contamination of eyes and mucous membranes because the product (dry component) contains alkaline components. Health and labor safety rules applicable to work with cement or lime mortars are to be adhered to. During application use of common personal protective equipment (mask, rubber gloves) is assumed to prevent respiration and contamination of skin if possible. It is not allowed to eat, drink or smoke during the work.

After work wash thoroughly the irritated place with warmish water and treat the skin by a suitable reparative cream.

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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EN 14891:2013/AC		
COROFIX Very fine highly chemically resistant coating for concrete surface repairs with XYPEX ADMIX C-1000 admixture		
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		NPD

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