



WATERFIX RH

Single-component hydrophobized dry mortar for sealing of cut-outs, holes, openings and structures

1. Product characteristics

WATERFIX RH is a single-component dry mortar expansible mix containing hydrophobizing components, components suppressing mortar slumping and other admixtures enhancing, besides others, adhesion to the concrete base.

- mixed with water only
- permanently water resistant
- good mechanical properties
- watertight
- internally hydrophobized
- good workability
- perfectly fills up the cut-outs and cavities due to controlled expansion

2. Use

WATERFIX RH is a single-component dry mortar mix intended especially for sealing of cut-outs, holes, and openings at water reservoirs and elements, where water tightness and permanent remedy of seepage is required. The **WATERFIX RH** mortar resists very well to dynamic stress in long run. The mortar can be worked up and applied easily by common techniques. The **WATERFIX RH** mortar is fully compatible with cement materials and its surface can be coated with any type of secondary protection in dependence on exposure of the given structure.

3. Physical and mechanical parameters

Tensile bending strength (MPa)	7 days 28 days	> 5.0 > 6.5
Compressive strength (MPa)	7 days 28 days	> 25 > 35
Expansion (volume change) vol. ‰		after 28 days + 0.6
Frost resistance		> T100
Adhesion to base (MPa)		> 2.5
Watertightness		> V12

4. Test certificates

The product is certified according to Act No. 22/1997 Coll. and Governmental Decree No. 163/2002 Coll. 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 as well as old paints or other surface finishes or other substances negatively effecting adhesion to the base (fats, greases, oils, etc.) shall be completely removed from the surface of the base. Exhaustion followed by rinsing with pressure water is the best method for necessary complete removal of any dust from the walls, holes, openings and concrete surface before application.

Before application of material, humidification of the concrete surface shall be properly and repeatedly performed for minimally 120 minutes. The properly humidified concrete shall be dully dump, and not covered with shining water film.

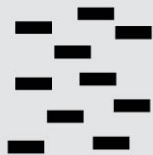
Preparation of the mortar. **WATERFIX RH** is prepared by mixing necessary quantity of dry mortar with measured quantity of water. The recommended mixing ratio is specified in the Table below. Optimum quantity of batching water can fluctuate in the given interval as usual for mortars containing a cementing binder.

WATERFIX RH	dry component (kg)		water (liters)	
		25		3.45 ÷ 3.85

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

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

Mortar application. The **WATERFIX RH** dry sealing mix was developed for low volume works executed manually in particular. The **WATERFIX RH** mortar has good workability, suppressed slumping and very good adhesion to the base. The **WATERFIX RH** mortar can be easily mechanically wet applied. It is necessary to care for perfect filling of the space up, perfect mortar compaction and removal of air inhomogeneities to ensure absolute tightness of sealed cut-outs and holes.



Surface treatment. The surface of freshly applied mortar shall be properly treated immediately after completion to avoid especially direct exposure to sun, wind effect and other factors accelerating un-desirable evaporation of the batch water. Optimal treatment means to use the treatment agent **DENSOCURE W**.

6. Specific consumption

Specific consumption of dry mortar amounts to $1.7 \div 1.8 \text{ kg/dm}^3$ of the filled up volume.

7. Packing and storage

The product is supplied in PE lined paper bags of 25 kg. The shelf life of the product in original undamaged packing is 6 months. **WATERFIX RH** must be efficiently protected against moisture during storing and transportation. 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

Handling the **COROLIT** dry mortar mix does not require any extraordinary hygienic precautions. The product contains alkalis and therefore any contamination of mainly eyes or mucous membrane must be prevented. Health and labor safety rules applicable to work with cement or lime mortars are to be adhered to.

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. Proprietary rights of third parties, above all, must be taken into account. All received 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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