

# MONOCRETE MPH TH



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SPECIAL MORTAR MATERIALS

BETOSAN

## High-strength thixotropic mortar for brickwork and jointing

### 1. Product characteristics

Single-component dry mortar mix containing re-dispersible polymers. Meets the requirements of EN 998-2.

- mixed with water only
- good workability, thixotropic
- permanently water-resistant, watertight
- good mechanical properties, highly abrasion-resistant
- highly chemically resistant, especially to sulphates effects
- frost-resistant
- compensated in volume

### 2. Use

**MONOCRETE MPH TH** is a single component dry mortar mix intended especially for brickwork and jointing where its excellent mechanical properties, chemical resistance and water tightness can be utilized. It can be used for hydro technical and sewer structures, reservoirs, shafts and other water work structures. The mortar has an excellent adhesion to ceramics, concrete and other silicate bases.

### 3. Physical and mechanical parameters

#### Requirements / results according to EN 998-2

Properties	Declared value or class
Reaction to fire	class A1
Compressive strength (MPa)	class M60
Adhesion by shear strength (MPa)	> 1,5
Water absorption (kg/m <sup>2</sup> .min <sup>-0.5</sup> )	≤ 0.05

#### Physical and mechanical parameters

Color	Non-standard grey
Density (kg/m <sup>3</sup> )	> 2150
Adhesion to concrete (MPa)	> 1,5
Tensile bending strength (MPa)	> 8.5
Grain size (mm)	0 ÷ 1 (f) ; 0 ÷ 4 (r)
Abrasion resistance according to Böhme (cm <sup>3</sup> /50cm <sup>2</sup> )	< 15
Aggressive media resistance (pH)	3 ÷ 10
Watertightness	√4
Water absorbability	< 5%
Workability (minutes)	> 30
Temperature for application (°C)	5 ÷ 30

### 4. Test certificates

Meets the requirements of EN 998-2.

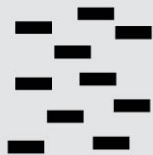
The product is certified according to Act No. 22/1997 Coll. and Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR). Continuous independent production quality control is provided by AZL 1687 LABBET®. Supervision of quality management, environmental and OSH systems is performed by Certification Body No. 3029.

### 5. Instruction for preparation and application

During the processing of dry mortar mixes **MONOCRETE MPH TH** it is generally necessary to comply with the principles contained in the relevant technological process **BETOSAN** for repair of reinforced concrete structures (TP n.1/06).

Mortar preparation. The mortar is prepared by simple mixing with water using low speed propeller. 25 kg of dry mix (1 bag) is mixed with 3.6 ÷ 3.8 liters (f), resp. 3.5 ÷ 3.7 liters (r) of water. To attain better workability small amount of extra water can be added, addition of more than 10% of extra water results in increased risk of creation of cracks and lower mechanical properties.

Workability of the product is 30 minutes at 20 °C.



Neither temperature of base nor temperature of ambient air shall be below + 5 °C and above + 30 °C.  
Mortar application. **MONOCRETE MPH TH** is applied manually. It is necessary to make sure that all horizontal and vertical joints are filled with appropriate volume of mortar during walling. All joints must be fully filled with mortar.

Surface treatment. Surface of newly walled structures shall be properly treated immediately after completion. It is especially necessary to avoid direct exposure to sun, effects of wind and other factors accelerating undesirable evaporation of the batch water.

## 6. Specific consumption

Specific consumption amounts to  $1.7 \div 1.8$  kg of the dry mortar per liter of fresh mortar.

## 7. Packing and storage

The product is packed into 25 kg PE-lined paper bags. **MONOCRETE MPH TH** 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

Handling the **MONOCRETE MPH TH** dry rehabilitation mortar 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 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](http://www.betosan.cz).

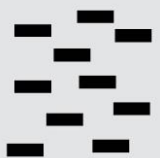


## 11. CE marking

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<b>BETOSAN s.r.o.</b> Na Dolinách 28, 147 00 Prague 4	
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8-11/072013	
EN 998-2:2016	
<b>MONOCRETE MPH TH</b> High-strength thixotropic mortar for brickwork and jointing	
Reaction to fire	class A1
Compressive strength (MPa)	class M60
Water absorption (kg/m <sup>2</sup> ·min <sup>-0.5</sup> )	≤ 0.05
Water vapor permeability μ	NPD
Adhesion by shear strength (MPa)	> 1,5
Adhesion by bond wrench method	NPD
Durability	NPD
Dangerous substances	meets 5.4.9

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