



# DECLARATION OF PERFORMANCE

According to Regulation (EU) No.305/2011  
No. GBCA001/7

**EKSMAL 1**



1. Unique identification code of the product:  
**GBCA001**
2. Intended use/uses:  
**According to EN 1503-4:ZA.1 and EN 1504-6:ZA.1, concrete repair product for structural repair – mortar based on hydraulic cement (CC)**  
**This product is intended for:**
  - Concrete restoration by recasting with concrete (Method 3.2 according to EN 1504-9)
  - Structural strengthening by adding mortar or concrete (Method 4.4 according to EN 1504-9)
  - Replacing contaminated or carbonated concrete (Method 7.2 according to EN 1504-9)
  - Adding reinforcement anchored in pre-formed or drilled holes (Method 4.2 according to EN 1504-9)
3. Manufacturer:  
**ADING AD Skopje, Novoselski pat (ul. 1409) br. 11, 1060 Skopje, R. North Macedonia**
4. Authorised representative:  
**/**
5. System or systems of AVCP:  
**System 2+**
- 6a. Harmonised standard:  
**EN 1504-3:2005**  
**EN 1504-6:2006**

Notified body:

**Building Research Institute (N I S I) Ltd, 1618 Sofia, Bulgaria, №86 Nikola Petkov Blvd - notified body for construction products, with identification number NB 2032 in European Commission register performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued [Certificate of conformity of the factory production control](#).**

DECLARATION OF PERFORMANCE



## 7. Declared performances:

Essential Characteristics	Performance	Harmonised technical specification	
<b>According to EN 1504-3</b>		MKC EN 1504-3:2006 MKC EN 1504-6:2007	EN 1504-3:2005 EN 1504-6:2006
Compressive strength	$\geq 45 \text{ N/mm}^2$ (class R4)		
Chloride ion content	$\leq 0,05\%$		
Adhesive bond	$\geq 2,0 \text{ N/mm}^2$		
Restrained shrinkage/expansion	<b>Bond strength after test</b> $\geq 2,0 \text{ N/mm}^2$		
Carbonation resistance	$d_k \leq \text{control concrete (MC 0,45)}$		
Elastic modulus	$\geq 20 \text{ GPa}$		
Thermal compatibility: Freeze-thaw cycling with de-icing salt immersion	<b>Bond strength after 50 cycles</b> $\geq 2,0 \text{ N/mm}^2$		
Capillary absorption	$\leq 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5}$		
Reaction to fire	<b>Class A1</b>		
Dangerous substances	<b>No performance determined</b>		
<b>According to EN 1504-6</b>			
Pull-out strength	<b>Displacement <math>\leq 0,6 \text{ mm}</math> at load of 75kN</b>		

## 8. Appropriate technical documentation and/or specific technical documentation:

**The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified in point 3.**

Signed for and on behalf of the manufacturer by:

General Manager,



Zoran Petrovski, arch.eng.


Skopje, 20.10.2023



# CE MARKING

Annex to DoP No.GBCA001/7

DECLARATION OF PERFORMANCE

<div style="text-align: center;">   2032 </div>	
<p>ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 17</p> <p>GBCA001/7 EN 1504-3:2005 EN 1504-6:2006 <b>EKSMAL 1</b></p> <p>Concrete repair product for structural repair – mortar based on based on hydraulic cement (CC)</p>	
<b>According to EN 1504-3</b>	
Compressive strength	<b>≥ 45 N/mm<sup>2</sup> (class R4)</b>
Chloride ion content	<b>≤ 0,05%</b>
Adhesive bond	<b>≥ 2,0 N/mm<sup>2</sup></b>
Restrained shrinkage/expansion	<b>Bond strength after test ≥ 2,0 N/mm<sup>2</sup></b>
Carbonation resistance	<b>d<sub>k</sub> ≤ control concrete (MC 0,45)</b>
Elastic modulus	<b>≥ 20 GPa</b>
Thermal compatibility: Freeze-thaw cycling with de-icing salt immersion	<b>Bond strength after 50 cycles ≥ 2,0 N/mm<sup>2</sup></b>
Capillary absorption	<b>≤ 0,5 kg/m<sup>2</sup> · h<sup>0,5</sup></b>
Reaction to fire	<b>Class A1</b>
Dangerous substances	<b>No performance determined</b>
<b>According to EN 1504-6</b>	
Pull-out strength	<b>Displacement ≤ 0,6 mm at load of 75kN</b>

**ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)**

Information and advice on safe handling, storage and disposal of the chemical product are contained in the official Safety Data Sheet (SDS).

**NOTE**

The information and recommendations relating to proper storage, handling and end-use of Ading's products are given based on our best knowledge and experience. The differences in substrates and ambient conditions are not covered with this information. The user shall refer to the official technical data sheet. ADING reserves the right to change its products. The proprietary rights of third parties must be observed. All orders are accepted under current terms of sale and delivery.