

DECLARATION OF PERFORMANCE

According to the Regulation (EU) No.305/2011

No. GBCB001/6

EKSMAL 4



1. Unique identification code of the product:
GBCB001
2. Intended use/uses:
According to EN 1503-4: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)**
3. Manufacturer:
ADING AD Skopje, Novoselski pat (ul. 1409) br. 11, 1060 Skopje, R. North Macedonia
4. Authorised representative:
/
5. System or systems of Assessment and Verification of Constancy of Performance (AVCP):
System 2+
- 6a. Harmonised standard:
EN 1504-3:2005

Notified body:

Building Research Institute (N I S I) Ltd, 1618 Sofia, Bulgaria, №86 Nikola Petkov Blvd („Научноизследователски строителен институт – НИСИ“ ЕООД, Р. България, София 1618, бул. "Никола Петков" № 86) - 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+.



7. Declared performances:

Essential Characteristics	Performance	Harmonised technical specification	
Compressive strength	$\geq 45 \text{ N/mm}^2$ (class R4)	MKC EN 1504-3:2006	EN 1504-3:2005
Chloride ion content	$\leq 0,05\%$		
Adhesive bond	$\geq 2,0 \text{ N/mm}^2$		
Restrained shrinkage/expansion	Bond strength after test $\geq 2,0 \text{ N/mm}^2$		
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	Bond strength after 50 cycles $\geq 2,0 \text{ N/mm}^2$		
Capillary absorption	$\leq 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5}$		
Reaction to fire	Class A1		
Dangerous substances	No performance determined		

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 the 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,



Blagoja Donchev, Civ. Eng.

Skopje, 24.06.2021

CE MARKING

Annex to DoP No.GBCB001/6

DECLARATION OF PERFORMANCE

 2032	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 11 GBCB001/6 EN 1504-3:2005 EKSMAL 4 Concrete repair product for structural repair – mortar based on hydraulic cement (CC)	
Compressive strength	≥ 45 N/mm² (class R4)
Chloride ion content	≤ 0,05%
Adhesive bond	≥ 2,0 N/mm²
Restrained shrinkage/expansion	Bond strength after test ≥ 2,0 N/mm²
Carbonation resistance	d_K ≤ control concrete (MC 0,45)
Elastic modulus	≥ 20 GPa
Thermal compatibility: Freeze-thaw cycling with de-icing salt immersion	Bond strength after 50 cycles ≥ 2,0 N/mm²
Capillary absorption	≤ 0,5 kg/m² · h^{0,5}
Reaction to fire	Class A1
Dangerous substances	No performance determined

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.

