



Code. 1.967.0540

## ardcoat M8

adhesive natural hydraulic lime NHL 3,5 based filler for thermal insulation systems, in compliance with ETAG 004

### GENERAL FEATURES

ARDCOAT M8 is a monocomponent ready-mix based on natural hydraulic lime NHL 3.5 and bio - pozzolan suitable for the bonding & filling of interior/exterior thermal insulating panels in mineral wools (glass and rock) or cork intended for the realization of thermal insulation systems, where more breathability is required compared with the normal adhesive. ARDCOAT M8 is in light brown color and complies with the requirements in the Guideline for European Technical Approval ETAG 004 as adhesive and filler for thermal insulation systems.

### INSTRUCTIONS

#### Substrate preparation

- Surfaces must be dry, coherent & free from dust, grease, oil, wax and, in the case of concrete, from detaching agents
- The substrate must have a uniform water absorption and not have irregularities exceed 1 cm; on the contrary uniform the surface with ARDPLAN AS/BS.
- In case of hot & dry climates we recommend to dampen the surface before the application.
- In presence of chalky surfaces apply a layer of ISOREST appropriately diluted.

#### Application

- Thoroughly mix a 25 kg pack of ARDCOAT M8 with 7 litres of clean water avoiding the formation of lumps, until obtaining an homogeneous and of plastic like consistency. For this we suggest using a mechanical mixer at a low speed.
- Leave to rest for at least 10 minutes, remix delicately without adding water and proceed with the application.
- Use ARDCOAT M8 within 3 hrs from the mix preparation.
- Do not apply below 5°C or above 35°C. Do not apply on frozen substrates or if frost is predicted within 24 hrs after the application; Avoid extremely wet surfaces, strong sunlight & winds.
- Do not apply directly on plaster based surfaces.
- Apply ARDCOAT M8 with trowel or spatula on the surface of the insulating panels and stick them on the surface.
- Allow at least 48 hrs from the application of the insulating panels, smooth the surface with ARDCOAT M8, position the alkali resistant reinforced mesh and apply a second filling which must cover the mesh perfectly. The recommended final finish should be at least 3mm thick.

- Allow at least 2 days before proceeding with the subsequent dowelling. After 5 - 6 days proceed with the desired finishing coat.
- Store the product at ambient temperature & protect against humidity
- Wash equipment with water before the mortar begins to harden.
- The mixed product is highly alkaline: use gloves & protective eyewear and, in case of eye contact, wash eyes immediately with plenty of water. Refer to the PSDS for further details.

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| <b>TECHNICAL PROPERTIES</b><br><br>UNI-EN 998-1 conformity | CLASSIFICATION WITH UNI EN 998-1                                   | <b>GP CS III – W2</b>                             |
|  | MAX AGGREGATE SIZE   | <b>0,8 mm</b>                                     |
|  | APPARENT VOLUME MASS OF POWDER                                     | <b>1400 kg/m<sup>3</sup></b>                      |
|  | HARDENED MORTAR VOLUMIC MASS AFTER 28 DAYS                         | <b>1400 kg/m<sup>3</sup></b>                      |
|  | COMPRESSION RESISTANCE AFTER 28 DAYS                               | <b>6,5 N/mm<sup>2</sup></b>                       |
|  | FLEXURE RESISTANCE AFTER 28 DAYS                                   | <b>3 N/mm<sup>2</sup></b>                         |
|  | CAPILLARY WATER ABSORPTION   | <b>0,2 kg/m<sup>2</sup>min<sup>0,5</sup> (W2)</b> |
|  | WATER VAPOUR PERMEABILITY $\mu$                                    | <b>15</b>   |
|  | DYNAMIC ELASTIC MODULUS AFTER 28 DAY                               | <b>6000 N/mm<sup>2</sup></b>                      |
|  | ADHESION TO CONCRETE SUBSTRATES                                    | <b>0,7 N/mm<sup>2</sup> type B fracture</b>       |
|  | ADHESION TO EPS SUBSTRATE  | <b>&gt;0,1 N/mm<sup>2</sup> type C fracture</b>   |
|  | USEFUL LIFE OF THE MIX (POT-LIFE)                                  | <b>3 hrs max</b>                                  |
|  | THERMAL CONDUCTIVITY<br>( $\lambda_{10, DRY}$ -Table value, P=50%) | <b>0,45 W/mK</b>                                  |
|  | FLASH POINT  | <b>Eclass A1</b>                                  |

## YIELD

The yield of ARDCOAT M8 varies according to the substrate's planarity and to the filling thickness. Approximately about 7-9 kg/m<sup>2</sup> of powdered product is expected to be used, considering its use both as adhesive and filler in the thermal insulation system.

## TENDER SPECIFICATION ITEM

### ADHESIVE FOR THERMAL INSULATION SYSTEM

Application on treated surfaces of ready-mix based on natural hydraulic lime NHL 3.5 and bio – pozzolan, type ARDCOAT M8 with a minimum consumption of 3-5 kg/m<sup>2</sup> of powdered product.  
€/m<sup>2</sup>

### FILLER FOR THERMAL INSULATION SYSTEM

Application on treated insulating surfaces of ready-mix based on natural hydraulic lime NHL 3.5 and bio – pozzolan, type ARDCOAT M8 with a minimum consumption of 4 kg/m<sup>2</sup> of powdered product for a 3 mm thickness.  
€/m<sup>2</sup>

## REINFORCED FILLER

Application on treated surfaces of ready-mix based on natural hydraulic lime NHL 3.5 and bio – pozzolan, type ARDCOAT M8 with a minimum consumption of 4 kg/m<sup>2</sup> of powdered product for a 3 mm thickness.  
€/m<sup>2</sup>

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*The data herein were correct at the time of Quality Control and refer to standardized environmental conditions. The mechanical resistance refers to standardized conditions and may differ to those in construction sites. The same are to be considered as a guide.  
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