



# MAXKOLA®

# M

## CEMENT-BASED MORTAR FOR TILING WITH LOW-POROUS ELEMENTS ON TRADITIONAL SUBSTRATES

### DESCRIPTION

**MAXKOLA® -M** is a cement-based adhesive mortar, that once mixed with water provides a suitable paste for placing of low porosity tiles and stones, on both indoor and outdoor surfaces.

### APPLICATION FIELDS

- Indoor and outdoor fixing of ceramic tiles with high, medium and low porosity, non-porous or vitrified gresite, glass mosaics porcelanato, marble and natural stone claddings on floors or walls.
- Tiling on cementitious substrates, bricks, screeded walls, pre-cast elements, etc.
- Ceramic tile fixing in swimming pools and façades.

### ADVANTAGES

- Very high adhesion to non-porous tiles and good mechanical properties.
- Excellent water retention, avoids to dampen the substrate or tiles.
- Good thixotropy and initial adhesion, prevents sliding of the placed pieces and tiles.
- Easy to use. Long open time and good workability, allowing to arrange the tile pattern.

### APPLICATION INSTRUCTIONS

#### Surface preparation

Surfaces must be structurally sound, clean and free from dust, grease, paints, efflorescence, oils, gypsum, loose concrete or any other material that could affect to adhesion. Voids, cracks and surface

damages must be prepared by chipping or sand blasting and repaired with a structural mortar such as **MAXREST®** or **MAXRITE® 500** (Technical Bulletins N.: 2 and 50, respectively).

Substrate must be as flat as possible, with no unevenness greater than 5 mm measured with a 2 meters long guide.

#### Mixing

A 25 kg bag of **MAXKOLA® -M** is mixed with from 6 to 7 litres of clean water (26% ± 2). Mix mechanically using a low speed drill (400-600 rpm) until achieving a lump free and homogeneous paste. Small quantities of product can also be mixed by hand. Do not mix for prolonged period nor use high-speed mixer. Allow mortar to rest for at least 5 minutes and then, remix briefly again before applying. Only mix quantities that can be placed in 30 minutes. After this period, setting process starts and mortar losses its workability. If it is needed, remix again briefly the mixture in order to keep its workability, but do not add more water.

#### Application

Apply **MAXKOLA® -M** on areas not greater than 2 m<sup>2</sup> at a time with a 6x6 mm notched trowel in order to control the application thickness and avoid the slumping of the tiles placed on vertical surfaces. Do not apply in thickness greater than 6 mm. While mortar is still fresh, place the pieces and press them with slight twisting motion, until flattening the ridges and ensuring the tile back achieves full contact with the mortar. Check the product adhesion by occasionally removing a set piece and inspecting mortar transfer onto back of tile.

The open time at 20 °C is 30 minutes and the rectification time is 15 minutes, increasing with lower temperatures or small quantities of mixture and reducing with higher temperatures. Remove excess mortar from

the joint before it sets. Joint grouting can be carried out after 24 hours using a suitable **MAXJOINT**<sup>®</sup> range product. Large format or non absorbent tiles will take longer time.

For large-format pieces, i.e. bigger than 35x35 cm, apply the adhesive on both surfaces of the substrate and the tiles, or use of **MAXKOLA**<sup>®</sup> **FLEX** (Technical Bulletin N.: 81) preferably.

### Application Conditions

Do not apply with temperatures below 5 °C or if lower temperatures are expected during the following 24 hours. Do not apply on frozen or frosted surfaces.

Protect the application from high temperatures, moderate to high winds or low humidity conditions or direct sunlight exposure, i.e. summer time. Do not apply at ambient temperatures above 35 °C.

### Curing

Applications carried out at lower temperatures with high relative humidity or with poor ventilation will require longer curing times.

### Cleaning

Before **MAXKOLA**<sup>®</sup> **-M** sets, all tools and equipment should be cleaned immediately with water. Once it hardens, can only be removed by mechanical means.

### CONSUMPTION

The estimated consumption for **MAXKOLA**<sup>®</sup> **-M** is 1,5 kg/m<sup>2</sup>·mm thickness. This figure may vary depending on the roughness, porosity and other conditions for both tile and surface. A preliminary test on-site will determine the coverage exactly.

### IMPORTANT INDICATIONS

- Remix briefly the mortar in order to keep its workability, but do not add more water.
- Dampening the surface of both substrate and tile is not required.
- Do not exceed the maximum thickness recommended per layer, i.e. 6 mm.

- For further information and other uses not specified in this Technical Bulletin, consult our Technical Department.

### PACKAGING

**MAXKOLA**<sup>®</sup> **-M** is supplied in 25 kg bag and it is available in standard grey and white colour.

### STORAGE

Twelve months in its original unopened packaging, in a dry covered place protected from humidity and frost, at temperatures above 5 °C.

### SAFETY AND HEALTH

**MAXKOLA**<sup>®</sup> **-M** is an abrasive compound, so protective rubber gloves and safety goggles must be used to prepare and apply the mixture. In case of eye contact, rinse thoroughly with clean water, but do not rub. In case of skin contact, wash affected areas with soap and water. If irritation continues, seek medical attention.

For further information, Safety Data Sheet of **MAXKOLA**<sup>®</sup> **-M** is available by request.

Disposal of the product and its empty container must be made by the final user and according to official regulations.

## TECHNICAL DATA

<b>Characteristics of the product</b>	
Appearance and colour	White or grey powder
Apparent density in powder form (g/cm <sup>3</sup> )	1,19 ± 0,05
Maximum aggregate size (mm)	0,8
<b>Application and curing conditions</b>	
Mixing water (% by weight)	26 ± 1
Apparent density of mortar (g/cm <sup>3</sup> )	1,62 ± 0,05
Open time at 20 °C (minutes)	30
Rectification time at 20 °C (minutes)	15
Water retention (g)	2,96
<b>Characteristics of the cured product</b>	
<b>MAXKOLA® – M</b> meets specifications of CE mark according to EN 12004 <i>Adhesives for tiles</i> and it is classified as a <b>Cementitious adhesive with improved properties, reduced slip and extended open time. C 2TE</b>	
Initial adhesion strength, UNE-EN 1348 (MPa)	1,4
Adhesion strength after water immersion, UNE-EN 1348 (MPa)	1,0
Adhesion strength after heat action, UNE-EN 1348 (MPa)	1,0
Adhesion strength after freeze/thaw cycles, UNE-EN 1348 (MPa)	1,2
Slip on vertical wall, UNE-EN 1308 (mm)	0,5
<b>Consumption / Thickness</b>	
Consumption (kg/m <sup>2</sup> ·mm thickness)	1,5
Recommended thickness per layer (mm)	6

## GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®**, **S.A.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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