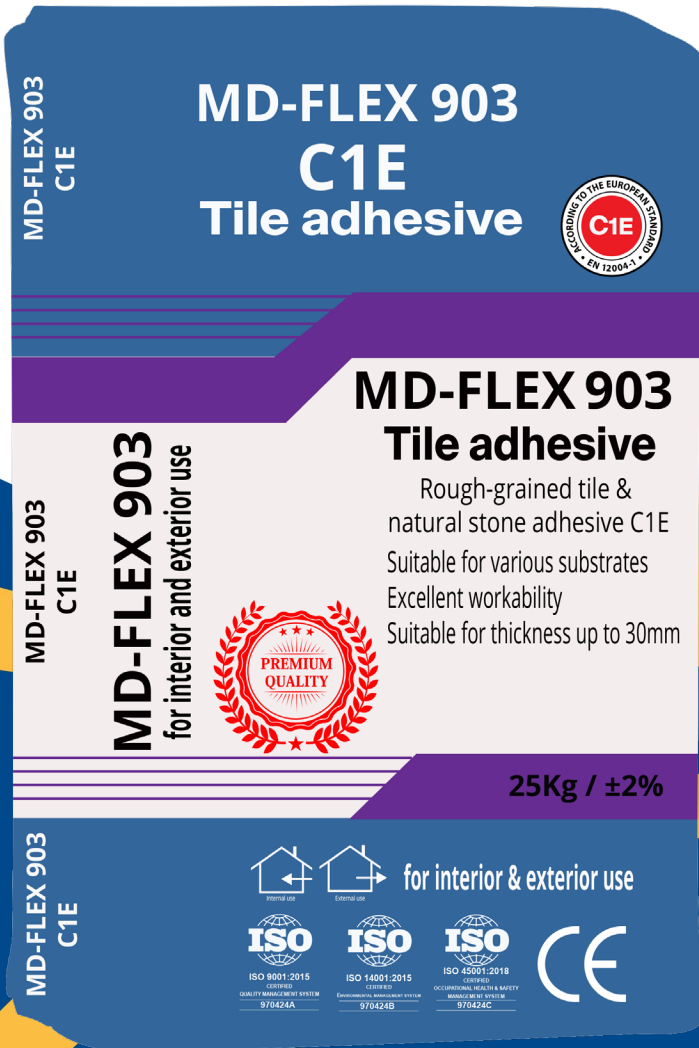




# MD-FLEX 903 (C1E)

High performance cement-based tile adhesive (C1E).



Technical Data Sheet (TDS)



ISO 9001:2015  
CERTIFIED

QUALITY MANAGEMENT SYSTEM

970424A



ISO 14001:2015  
CERTIFIED

ENVIRONMENTAL MANAGEMENT SYSTEM

970424B



ISO 45001:2018  
CERTIFIED

OCCUPATIONAL HEALTH & SAFETY  
MANAGEMENT SYSTEM

970424C



# MD-FLEX 903 (C1E)



High performance cement-based tile adhesive (C1E).

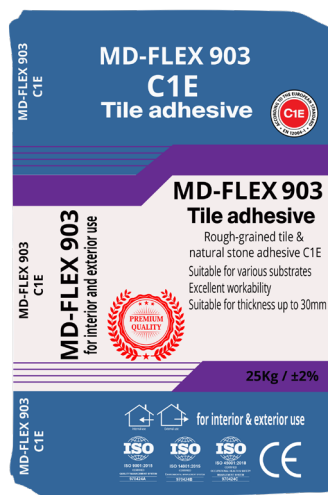
- Suitable for various substrates
- Excellent workability
- Suitable for thickness up to 30mm

## Description

MD-FLEX 903 is a coarse-grained cement-based ceramic tile adhesive. It is suitable for thick layers (up to 30 mm) for indoor and outdoor applications. It has a large open time with excellent workability.

## Benefits

- High resistance to water and heat.
- High water retentivity.
- High mechanical strength.
- Extended open time. Allows adjustment of tiles.
- Easy workable. Highly thixotropic.
- High tensile adhesion strength.
- No vertical slip.



Technical Data Sheet (TDS)



# MD-FLEX 903 (C1E)



High performance cement-based tile adhesive (C1E).

## Uses

MD-FLEX 903 is suitable for fixing coverings such as:

- Ceramic tiles, single fired, double fired, medium sizes
- Humidity stable marble and natural stone
- For applications on horizontal surfaces such as:
- Internal areas, wet areas like shower rooms and WC
- Medium traffic floors

For application on various substrates like:

- Properly cured concrete and cement screeds
- Non-absorbent substrates  
(after suitable primer application)
- It can smooth out rough substrates

## Consumption

Bonding of ceramic tiles and natural stones: Medium size : 2,5 – 7 kg/m<sup>2</sup>



Technical Data Sheet (TDS)



# MD-FLEX 903 (C1E)



**High performance cement-based tile adhesive (C1E).**

**Technical Data**

Product Identity	
Form	Powder
Color	Grey
Chemical substance	Portland cement, aggregates, special additives
Granulometry	D <sub>max</sub> : 1,6 mm
Bulk density	1,5 ± 0,1 kg/L
Storage	12 months on dry area in the original sealed packaging
Application data (+23°C & 50% R.H.)	
Mixing ratio	6 – 7 L of water for 25kg
Density of the mix	1,7 ± 0,05 kg/L
Application temperature	from +5°C up to +35°C
Pot life	4 hours
Open time	30 min
Correction time	20 min
Walkability	after 24 hours
Grouting on floor	after 24 hours
Consumption by trowel	No 4: 1,8 – 2,0 kg/m <sup>2</sup>
	No 6: 2,6 – 2,8 kg/m <sup>2</sup>
	No 8: 3,6 – 4,0 Kg/m <sup>2</sup>
	No10: 4,8 – 5,0 kg/m <sup>2</sup>
Final performance according to EN 12004:2007+A1:2012	
Performance	
Initial tensile bonding strength	≥ 0,5 N/mm <sup>2</sup>
- after water immersion	≥ 0,5 N/mm <sup>2</sup>
- after heat ageing	≥ 0,5 N/mm <sup>2</sup>
- after freeze-thaw cycles	≥ 0,5 N/mm <sup>2</sup>
<u>Extended open time:</u>	
tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>

## Packaging

Packed 25 kg plastic lined paper bags.

Storage: when stored unopened in a cool dry place, shelf life is 12 months from date of manufacture



Technical Data Sheet (TDS)



# MD-FLEX 903 (C1E)

**C1****High performance cement-based  
tile adhesive (C1E).**

## Preparation of MD-FLEX 903

Mix the content of the paper bag containing MD-FLEX 903 (25 kg) with 6 – 7 liters of clean and fresh water by means of appropriate electrical stirrer low speed for at least 3 – 5 min, until a uniform mortar free of lumps is obtained. During hot periods and in general, it is recommended to avoid direct sunlight exposure of the materials (in powder or liquid form) before use, otherwise the working time is reduced.

## Application

The tiles are placed on the still fresh adhesive bed, by applying firm pressure, in order to ensure full contact between the tiles and the adhesive. The open time of MD-FLEX 903 in normal temperature and humidity conditions is more than 20 minutes. Unfavourable weather conditions like contact with strong direct sunlight, drying and/or hot wind or a very absorbent substrate may reduce the open time significantly. For this reason, it is important to check if the adhesive has formed a superficial skin. If such incident occurs, remove the adhesive from the substrate and reapply it, before applying the tiles. Small corrections must take place 20 minutes after tile application. Surfaces tiled with MD-FLEX 903 should not be exposed to rain, strong sun or frost for at least 24 hours.

**Technical Data Sheet (TDS)**

ISO 9001:2015  
CERTIFIED  
QUALITY MANAGEMENT SYSTEM  
970424A



ISO 14001:2015  
CERTIFIED  
ENVIRONMENTAL MANAGEMENT SYSTEM  
970424B



ISO 45001:2018  
CERTIFIED  
OCCUPATIONAL HEALTH & SAFETY  
MANAGEMENT SYSTEM  
970424C



# MD-FLEX 903 (C1E)



High performance cement-based  
tile adhesive (C1E).



## MADA TRADE CO.

EL-THAGR COMPLEX – BUILDING NO. 2, APARTMENT  
105, EL-NOZHA AIRPORT ROAD ,DHL BUILDING -  
5431001 ,ALEXANDRIA, EGYPT..

Tel: +20 3 3832405 , +20 3 3832406 Fax: +20 3 3808003  
E-mail: [sales@mada-trade.com](mailto:sales@mada-trade.com)  
<https://www.mada-trade.com/>



Technical Data Sheet (TDS)



ISO 9001:2015  
CERTIFIED  
QUALITY MANAGEMENT SYSTEM  
970424A



ISO 14001:2015  
CERTIFIED  
ENVIRONMENTAL MANAGEMENT SYSTEM  
970424B



ISO 45001:2018  
CERTIFIED  
OCCUPATIONAL HEALTH & SAFETY  
MANAGEMENT SYSTEM  
970424C

