



DOVA-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



DOVA-FLEX 903 (C1E)



High performance cement-based tile adhesive (C1E).

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

Description

DOVA-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.



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Uses

DOVA-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/m²



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Technical Data

| Product Identity | |
|--|--|
| Form | Powder |
| Color | Grey |
| Chemical substance | Portland cement, aggregates, special additives |
| Granulometry | D _{max} : 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 ² |
| | No 6: 2,6 – 2,8 kg/m ² |
| | No 8: 3,6 – 4,0 Kg/m ² |
| | No10: 4,8 – 5,0 kg/m ² |
| Final performance according to EN 12004:2007+A1:2012 | |
| Performance | |
| Initial tensile bonding strength | ≥ 0,5 N/mm ² |
| - after water immersion | ≥ 0,5 N/mm ² |
| - after heat ageing | ≥ 0,5 N/mm ² |
| - after freeze-thaw cycles | ≥ 0,5 N/mm ² |
| <u>Extended open time:</u> | |
| tensile adhesion strength | ≥ 0,5 N/mm ² |

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



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Preparation of DOVA-FLEX 903

Mix the content of the paper bag containing DOVA-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 DOVA-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 DOVA-FLEX 903 should not be exposed to rain, strong sun or frost for at least 24 hours.

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