

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier: MARMOFLEX-ECO

Manufacturer / Importer / Supplier:

ANAV INDUSTRIES

Address: Khewat No. 1358/1151,
Khatoni No. 1461, Main NH-9, Near Toll Plaza,
Village Rohad, Distt. Jhajjar, Haryana-124501

Marketed By:

Marmo Solutions Pvt. Ltd.

Office Address :

WHS.1/18, 2nd floor, Kirti Nagar,
Near Richi Rich Banquet Hall,
New Delhi-110015

Tel. No: 011-40586081

Emergency No: 91-9555155080

www.marmosolutions.com

info@marmosolutions.com

2. Marmoflex-Eco:

Marmoflex-Eco is adhesive for fixing ceramic tiles indoor.



Characteristics:

- Used as an adhesive for walls and floors.
- Thickness upto 10 mm
- Prolonged workability
- Adjustable
- No sag
- Very low VOC

3. Specification:

- **Category:** Inorganic Mineral products.
- **Class:** Mineral adhesives for ceramic tiles and natural stone.

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- **Rating:** Eco 4

(Natural mineral content 79% ; CO₂ /kg emission 145 g ; very low VOC emissions ; can be recycled as inert materials.

- This is green building rating which is dependable and reliable evaluation method for measuring and improving the environmental performance of building materials.

4. Notes:

-Formulated with locally-sourced minerals meaning lower greenhouse gas emissions during transport.

- Single-component; avoiding the use of plastic cans reduces CO₂ emissions and the need to dispose of special waste
- Can be recycled as mineral inert material, avoiding waste disposal costs and environmental impact.

4. Application:

1.Surface:

- Cement-based screeds and mortars
- Cement-based plasters/renders

2.Material on which chemical can be used:

- ceramic tiles
- Terracotta
- Ceramic mosaic
- Cement Blocks

3.Usage:

- Flooring and walls
- For internal use
- COMMERCIAL applications
- STREET Furniture

5. PREPARATION OF THE SURFACE:

All surfaces must be dimensionally stable according to IS 1443-1972, level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising. It is good practice to dampen highly absorbent concrete surfaces or apply a coat of Marmo Prime.

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6. ADHESIVE PREPARATION:

Mixing ratio: 4.5 - 5 litres of clean water per 20 kg bag
11.25 - 12.5 litres of clean water per 50 kg bag

7. Application:

- To guarantee maximum adhesion it is necessary to apply a sufficient layer of adhesive.
- Large, rectangular sizes with sides > 30 cm may require adhesive to be applied directly on the back surface of the tile.
- Check samples to make sure the adhesive has been transferred to the back of the material.

Create elastic expansion joints:

- ≈ 10 m² in external applications,
- ≈ 25 m² in internal applications,
- Every 8 metres in long, narrow applications.

Respect all structural, fractionizing, and perimeter joints present in the surfaces.

Product Identity

Type:	Powder
Colour:	Grey, white
Bulk density (kg/m ³):	1300
Dry Solids content (%):	100

COMPOSITION AND PROPERTIES OF MIXTURE (at +23°C and 50% R.H.)

Mixing ratio:	4.5 - 5 litres of clean water per 20 kg bag 11.25 - 12.5 litres of clean water per 50 kg bag
Consistency of mix:	Pasty
Density of the mix (kg/m ³):	1300
pH of mix:	13
Pot life:	over 8 hours
Application temperature:	From +5°C to +40°C
Open time (according to EN 1346)	30 minutes
Adjustability time:	approx 45 minutes
Ready for grouting on walls:	After 4-8 hours
Ready for grouting on floors:	After 24 hours
Set to light foot traffic:	24 hours
Ready for use:	14 days

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Preparing the mix:

- Mix Marmoflex-Eco with clean water until a smooth, lump-free paste is obtained.
- Leave to rest approximately 5 minutes and re-stir.
- In a clean mixing container pour in 4.5 - 5 litres of clean water, and then add 20 kg bag/ 11.25-12.5 litres of clean water for 50 kg bag of Marmoflex-Eco powder, using an electric mix (approx 300RPM) mix until a smooth, lump free paste is obtained. Leave the mix to rest for approximately 5 minutes and then re-stir.
- Mixed this way, Marmoflex-Eco has a pot life of approximately 8 hours.

8. PACKAGING:

Marmoflex-Eco is available in 20 kg and 50 kg bags.

9. STORAGE:

When stored in dry conditions in the original, unopened bags, Marmoflex-Eco has a shelf life of 12 months. If stored at high temperature and or high humidity conditions the shelf life may be reduced.

10. FINAL PERFORMANCES:

Tensile adhesion strength in compliance with EN 1348 (N/mm²):

• **Initial tensile adhesion strength (after 28 days):** >1

• **Tensile adhesion strength after heat ageing:** >1

• **tensile adhesion strength after water immersion:** >1

• **tensile adhesion strength after freeze/thaw cycles:** >1

Resistance to alkalis: Excellent

Resistance to oils: Excellent (poor to vegetable oils)

Resistance to solvents: Excellent

Temperature when in use: From -30°C to +90°C

SET TO LIGHT FOOT TRAFFIC: Floors are set to light foot traffic after approx. 24 hours.

READY FOR USE: Surfaces are ready for use after approx. 14 days. Swimming pools and basins can be filled after 21 days.

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Cleaning: Tools and containers should be cleaned with plenty of water while Marmo Elex-Eco is still fresh. Surfaces should be cleaned with a damp cloth, before the adhesive dries.

11. Notes:

-Marble, natural stones and recomposed materials in general may have characteristics that vary even with reference to materials of the same chemical and physical nature.

12. CONSUMPTION:

Coverage per mm of thickness $\approx 1.2 \text{ kg/m}^2$

13. WARNING:

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product. Please refer to the current version of the Technical Data Sheet, available from our website www.marmosolutions.com

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