



FLEX GREY

Two component, grey, flexible tile/stone adhesive for wood & metal surface

DESCRIPTION

Two-part, grey adhesive comprising of rubber-based powder and water based polymer liquid. Flexible adhesive for use in areas where tiling is likely to be subjected to some limited background movement or vibration, especially wood, plywood & metal surface.

PERFORMANCE

Suitable for fixing at 2 - 10mm bed thickness wall and floor tiles, glass mosaics, vitrified tiles and natural/engineered stones in interior and exterior installations, including swimming pools. Also suitable for use on floors subjected to light traffic conditions, but bed thickness must not to exceed 10mm. No traffic should be allowed on the floor for at least 24 hours after completion of tiling. With dense or impervious surfaces, drying-out and setting time of the adhesive may be delayed.

FEATURES

- High performance flexible adhesive
- Suitable for wood & metal surface
- High tensile strength
- Water and frost resistant
- Suitable for use in interior and exterior locations
- Suitable for submerged conditions
- Meets the requirement of IS 15477: 2004

AREAS OF APPLICATION

Walls	✓
Floors	✓
Interior	✓
Exterior	✓
Dry areas	✓
Wet areas	✓ (1)
Showers	✓ (1)
Swimming Pools	✓ (1)(2)
Limited movement/vibration	✓

Note

✓ = Suitable

(1) In wet condition tank out with ARDEX ENDURA WATERPROOFING SYSTEM

(2) Do not fill pool for at least 3 weeks following completion of grouting.

PHYSICAL PROPERTIES

FLEX Grey @27 ± 2°C

Mixed density	1.28 g/cc
Bed Thickness	2 - 10 mm
Mixing Ratio for 15.41 kg pack	4.50 kg of Flex Liquid 10.91 kg of Flex Powder
Pot Life	40 - 50 minutes
Liquid: Powder ratio	1 : 2.42
Adjustability	20 to 25 minutes
Open time	20 to 25 minutes

Setting time	24 hours
Pull out strength (14 days air cure)	> 0.70 Mpa
Shear Adhesion (14 days air cure)	> 12.0 kN
Tensile Adhesion (14 days air cure)	> 1.5 kN
Temperature Resistance	50°C prolonged conditions, upto 80°C limited conditions
VOC Content	4.24 g/l

COVERAGE ESTIMATES

Pack size	Coverage
15.41 kg	approx 5.50 sqm/pack using
Powder 10.91 kg	6mm x 6mm square notch trowel
Liquid 4.50 kg	

APPLICATION INSTRUCTIONS

Substrate Preparation

Before starting any work ensure that the base is:

- Sufficiently flat to permit the specified flatness of finished tiling, bearing in mind the permissible minimum & maximum thickness of the bedding material.
- Suitable for tiling in the service conditions to which it will be exposed.
- Free from efflorescence, laitance, dirt and other loose material. Remove thoroughly by dry brushing.
- Clean all tile and other non-porous surfaces with water containing detergent, then with clean water and allowed to dry.

Surface Considerations

New Gypsum Plaster:

Before commencing tiling, ensure that the plaster has been allowed to dry out by exposure to air for at least 4 weeks. Ensure that the finish coat has been applied and the plaster is free from dust, efflorescence and friable material. Cut any defective areas, including badly cracked plaster, to straight horizontal and vertical edges. Thoroughly dry brush background and edges and make good with plaster or suitable non-shrinking filler. Plaster having a shiny, polished surface should be thoroughly brushed with a stiffed bristled brush, followed by priming with a 1.5: 1 (cement: ADMIX AD1). Do not allow primer to dry.

Gypsum Plasterboard Backgrounds:

Ensure that boards are dry, securely fixed and rigid with no protruding fixings and the face intended to receive the decorative finish is exposed.

Plywood / Chipboard / Fibre-reinforced Cement Sheets:

Sheets/boards must be dry, securely fixed and rigid. Moisture resistant or exterior grade boards should be used. Do not seal or prime surfaces to be tiled.

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Fibre Mesh Reinforced Cement Faced Tile Backer Boards:

Ensure that the boards are dry. Do not seal or prime surfaces to be tiled.

Glazed Tiles / Bricks:

Ensure those existing tiles/bricks are firmly adhered to their bed and the bed is sufficiently strong to support the weight of new tiling. Remove loose or hollow surrounding areas and make good with 1: 3 cement: sand mortar applied over a slurry bonding coat (2 parts cement: 1-part ADMIX AD1) or with a suitable non-shrinking filler.

Painted Walls:

Ensure that the paint is in a sound condition. Check by applying strips of cello tape (or equivalent) to clean dry painted surface. Leave for 10 minutes before tearing them off. If paint is removed with the tape then the paint is unsound. Remove all areas of unsound paint by mechanical means. Do not use paint strippers.

Steel Background:

Ensure that the surfaces are firm, rigid and free from deflection, free from loose rust, scale and grease. Wherever necessary, treat with a suitable rust inhibiting primer.

MIXING

Mix together liquid with powder in the proportions supplied i.e. 4.50 kg of liquid 10.91 kg of powder

APPLICATION

1. Spread no more than 1 sqm at a time, apply the adhesive to the wall or floor surface.
2. Comb the adhesive to the required depth (between 2 - 10mm) using a suitable trowel.
3. Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile. Leave no voids behind tiles when solid-bed fixing.
4. Tiles should be fixed within 20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.
5. Leave adequate joints between individual wall and floor tiles unless self-spacing tiles are used.
6. Clean off surplus adhesive from the tile face and between joints.
7. Do not use in damp conditions and temperature less than 5°C

SPACERS

Use ARDEX ENDURA spacers for uniform joint width

Grouting

Grouting should not be carried out for at least 24 hours after completion of tiling or until adequate time has been allowed for the adhesive to dry-out and set. On impervious or non-porous backgrounds, joints should be left open for at least 24 hours.

Note: The addition of ADMIX GT1 to cement-based grouts will enhance adhesion to tile edges, water resistance and improves flexibility.

CLEANING

Tools and containers may be cleaned using clean water when the adhesive is still fresh. The hardened adhesive can be removed from tools mechanically.

STORAGE AND SHELF LIFE

FLEX Grey has a shelf life of 12 months when stored in normal dry conditions.

PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

For more details please refer the relevant product safety datasheet

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.



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