

FLEX White

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

DESCRIPTION

Two-part, white 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.

STANDARDS

Conforms with the requirements of **EN 12004: 2017** and is a highly deformable (S2), improved (2), cementitious adhesive (C) with extended open time (E) of class to **C2ES2**

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

PHYSICAL PROPERTIES @ 27± 2°C

Bed Thickness	2 - 10 mm
Pot life	40 - 50 mins
Setting time	24 hours
Temperature Resistance	50°C prolonged conditions upto 80°C limited conditions
Mix Density	Approx. 1.20g/cc
VOC Content	3.84 g/l

Properties as per EN 12004: 2017 @ 23 ± 2°C

Property with Test Method (as per Part 2)	Min. Requirements (as per Part 1)	Typical Result
Tensile Adhesion Strength (Clause 8.3)		
Initial	≥ 1.00 N/mm ²	> 1.70 N/mm ²
After water immersion	≥ 1.00 N/mm ²	> 1.50 N/mm ²
After heat aging	≥ 1.00 N/mm ²	> 1.85 N/mm ²
After freeze-thaw cycles	≥ 1.00 N/mm ²	> 1.70 N/mm ²

Open time @ 30 mins: Tensile Adhesion Strength (Clause 8.1 & 8.3)	≥ 0.50 N/mm ²	0.64 N/mm ²
Transverse Deformation (Clause 8.6)	≥ 5.0 mm (for S2)	>10 mm

COVERAGE ESTIMATES

Pack size 12.50 kg Powder 8.00 kg Liquid 4.50 kg	Coverage approx 1.10 - 1.20 kg/m ² /mm thickness
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Notch Trowel size	Consumption/m ² (@ 45° angle of trowel)
4mm X 4mm	1.60 - 1.65 Kgs
6mm X 6mm	2.40 - 2.50 Kgs
8mm X 8mm	3.20 - 3.30 Kgs
12mm X 12mm	4.80 - 5.00 Kgs
20mm X 20mm	7.80 - 8.20 Kgs

Note: Coverage will depend on the nature and flatness of the surface and the method of application. For good coverage, it is vital that all surfaces are smooth, plumb, level and free from defects and undulations.

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 thickness of the adhesive.
- Suitable for tiling in the service conditions to which it will be exposed.
- Surfaces to be tiled must be dry, clean and free from loose material and contamination.

SURFACE CONSIDERATIONS

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.

Fibre Mesh Reinforced Cement Faced Tile Backer Boards:

Ensure that boards are dry, securely fixed and rigid with no protruding fixings and the face intended to receive the decorative finish is exposed. Ensure that the boards are dry. Do not seal or prime surfaces to be tiled.

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Glazed Tiles :

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 8.00 kg of powder

APPLICATION

1. Spread not more than the area which can be tiled within the open time of the adhesive.
2. The mixed adhesive is applied to the prepared surface with a trowel and then combed through with a suitably sized square-toothed notched trowel.
3. The tiles should be fixed within the open time of the adhesive and pressed into place with a twisting and sliding action ensuring solid bed fixing is achieved. The open time is dependent on site conditions and will be extended in lower temperatures and shortened at higher temperatures.
4. Check periodically that good contact is maintained with the back of each tile.
5. Touch the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer.
6. Leave adequate joints between individual wall and floor tiles unless self-spacing tiles are used.
7. Clean off surplus adhesive from the tile face and between joints

SPACERS

Use ARDEX ENDURA spacers for uniform joint width.

GROUTING

Grouting should be carried out after 24 hours. Use the appropriate grouting material from the range of ARDEX ENDURA cementitious and epoxy grouts.

Note: The addition of ADMIX GT 1 to cement - based grouts will enhance adhesion to tile/stones edges, increase 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 White 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 Material Safety Data Sheet

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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