

### DESCRIPTION :

**weberset eco flex** is a eco-friendly & CO2 Emission reduced "Green" Cement Based Tile Adhesive. Product made to comply with Singapore Environmental Council (SEC) Green Label Criteria (GLS 002) with minimum 20% Re-Cycled content.

Grey coloured, water resistant, thin-thick bed, single-component, improved cement-based adhesive.

### USAGE :

Suitable for fixing Ceramic Wall & Floor Tiles, Vitrified Homogeneous Tiles, Porcelain Tiles, Mosaics, Quarry Tiles, Terracotta, Marbles, Granites, Slates, Terrazzo, Brick Veneer, Decorative Stones etc., to wall & floor, dry or wet, interior or exterior areas.

### GENERAL PERFORMANCE :

**weberset eco flex** is fortified with additives. Requires mixing with Clean Water only; therefore eliminate use of expensive Latex Admixture and allows for easier on-site mixing. More economical & user friendly compare to conventional two-component adhesive system. **weberset eco flex** offers improved adhesion strength, flexural strength (deformable), durability, reduce water permeability, improved workability and better transfers; compared to conventional cement-based adhesive.

It is specially formulated for the installation of Vitrified or Porcelain Homogenous Tiles (or other tiles / mosaics) & Marble or Granite Slabs with low water absorption rate (ie. < 0.5%) and for installation onto demanding substrate (See Application).

The set adhesive is water resistant but not impervious to water. **weberset eco flex** is a thin or thick bed adhesive used normally at 6 – 12 mm bed thickness.

Although in most cases it requires mixing with water only; there is special conditions where Latex Admixture (ie. **webermix eco mix 1**, **webermix admix 1**, **webermix admix plus**, **webermix multibond** and etc.) must be used with **weberset eco flex**, to further enhance the physical properties of the set adhesive.

Not recommended for use on skim-coat plaster, paint and metal.

### APPLICATION (SUBSTRATE) :

**weberset eco flex** can be used on the following surfaces or condition :

- **Concrete** – Must be aged for 6 weeks. Direct fixing onto concrete may be taken provided the surface is flat or true, well cured and free of contamination. Surface primer is required for direct fixing.
- **Brick Wall** – Must be aged for 4 weeks and leveled with Cement-Sand Mortar (**E.MIX Render Series**) prior to fixing tiles.
- **Lightweight Concrete Blocks** – Must be aged for 4 weeks and leveled with Cement-Sand Mortar (**E.MIX Render Series**) prior to fixing tiles. Direct fixing onto Block Wall is not recommended.
- **Autoclaved Aerated Concrete Blocks (AAC)** – Must be aged for 4 weeks and leveled with Cement-Sand Mortar (ie. **E.MIX ALC Render**) prior to fixing tiles. Direct tiling on flat surface can be conducted using **weberset eco flex + webermix admix 1** etc. Prime surface of AAC Blocks with **weberprim AAC Primer**.
- **Cement-Sand Render & Screed** – Allow new Cement-Sand Render or Screed to cure for 2 – 3 weeks, before fixing tiles. The rendering or screeding mortar mix should ideally be 1 part cement : 3 – 4 parts of sand by volume.

Note :

For external tiling, mix **weberset eco flex** with latex admixture in replacement of gauging water.

- **Existing Tiles / Marbles / Terrazzo** – Existing surface must be dry, sound & free of contaminants. Hollow sections should be removed and made good before direct fixing with **weberset eco flex + webermix admix 1**.
- **Existing Vinyl Tiles** – Existing vinyl tile surface must be dry, sound & free of contaminants. Prime surface with **webermix SBR**, before direct fixing with **weberset eco flex + webermix admix 1**.

### TECHNICAL DATA

Colour	: Grey
Density	: Approx. 1.3 g/m <sup>3</sup>
pH	: Approx. 12
Dry Solid Content	: 100%
Shelf Life	: 6 months
Bed Thickness	: 6 – 12 mm
Mix Proportion	: 1 pbw water to approx. 4 pbw adhesive (6.0 - 6.5 ltrs water /Latex Admixture to 25 kg <b>weberset eco flex</b> )
Application Mode	: Thick Bed Solid Bed Notched Trowel
Adjustability Time	: Approx 20 minutes – may vary depending on porosity of substrate.
Working Time (Pot Life)	: Approx. 3 hours at 25°C
Open Time	: Approx. 20 minutes at 25°C on cement-sand render / screed (May vary depending on porosity of substrate & atmospheric condition)
ISO 13007 - 2 Clause 4.1	
Setting Time	: Initial = Approx. 16 hours : Final = Approx. 24 hours : Ready for light foot traffic = 24 hours
Application Temperature	: Above 5°C – 50°C
Temperature Resistance	: 100°C
Frost Resistance	: - 5°C
Resistance to acids	: Fair
Resistance to alkalis	: Good
Resistance to oil & solvents	: Fair
Damp Resistance	: Good
Transverse Deformation	: S1
Tensile Adhesion Strength : (EN ISO 13007 – 2 Clauses 4.4)	
After 28 Days Air Cure	: 1.8 - 2.1 N/mm <sup>2</sup>
After Heat Aging	: 1.4 - 1.6 N/mm <sup>2</sup>
After Water Immersion	: 1.1 - 1.3 N/mm <sup>2</sup>
Classification under ISO 13007 - 1	: C2 S1 Adhesive



- **Building Boards** – Building board such as plywood, cement-fibre board, chipboard etc. must be adequately braced to provide a sound / rigid substrate. Prime surface with **webermix SBR**, before direct fixing with **weberset eco flex + webermix admix 1**.
- **Timber Floors** – It must be strong, rigid & strengthened by overlaying it with a 12 mm thick marine plywood, screw fixed at 300 mm centers to the joists. Installation system for tiles, similar to "Building Boards".

**Note :**

- Not suitable for use on substrates subjected to strong shrinkage, movement or vibration or to install moisture sensitive materials.
- Where greater flexural strength is required employ the use of a two-component adhesive system (ie. Cement-Based Adhesive + Latex Admixture).

**INSTALLATION PROCEDURE :**

- Substrate must be dry, sound, flat / true & free of contaminants eg. Dust, grease, laitance, mould releaser oil etc.
- Ceramic Tiles are to be fix dry. Do not soak in water.
- Mix **weberset eco flex** with water / Latex Admixture as per the recommended mix ratio. Mechanical mixing recommended.
- Spread adhesive to the substrate at bed thickness of 6 – 12 mm (may vary depending on tile size & thickness) with suitable notched trowel.
- Spread no more than 1 m<sup>2</sup> at a time to avoid Skin-Over. Open Time of spread adhesive is approx.. 20 minutes at 25°C.
- Promptly fix tiles onto adhesive bed, followed by slight twisting action to ensure good contact ie. Solid Bed Fixing.
- Lift tiles occasionally to check that adequate transfer and contact is achieved between the adhesive bed and the tile back.
- Touch adhesive bed periodically to check for Skin-Over. Where adhesive bed is no longer tacky / sticky, Skin-Over had occurred. Re-Trowel adhesive bed.
- Allocate joints of at least 2 – 3 mm wide between tiles.
- Remove surplus adhesive from tile surface & joints before it hardens.
- Allow to set for 24 hours before grouting commences.
- The adhesive should not be used in temperatures lower than 5°C or in damp condition.

**Note :**

It is the responsibility of users / applicators to determine condition & suitability of all surfaces; prior to actual application.

**GROUTING :**

Grouting of tile joints should only commence at least 24 hours after completion of tiling or until adhesive had set. Setting may be delayed on dense or impervious surfaces. Use **weberfill fine grout** or **weberfill f&w grout** etc. depending on grouting joints widths and specific areas requirement.

**COVERAGE :**

May vary depending on the nature and flatness of surface :  
At 3 mm trowel bed thickness is approx. 3 kg / m<sup>2</sup>  
At 6 mm trowel bed thickness is approx. 6 kg / m<sup>2</sup>

**PACKING :**

Available in 25kg bag

**SHELF LIFE / STORAGE :**

At least 6 months; when stored in dry conditions of normal ambient temperature.

**MOVEMENT JOINTS :**

Must be incorporated where necessary and in accordance with general principles incorporated within the BS 5385 : Part 1 – 5 :

- Over existing structural joints.
- Where tiling abuts other materials.
- At junctions between different background materials, where tiling is continuous across them.
- In large areas of floor tiling, at 6 – 9 m centers vertically & horizontally and at the floor perimeter. For wall tiling at storey heights, 6 – 9 m vertically & at internal vertical corners.
- Around fix structure ie. column or fix machinery etc.
- Where stresses are likely to be concentrated ie. changes in wall or floor alignment.

**TECHNICAL SERVICES :**

For further details or recommendations please contact our Technical Advisory / Specification Center at 603-6038 9498 (KL) & 604-626 2830 (Penang)

**PRECAUTION :**

Avoid inhaling dust. If material enter eyes, wash out immediately with Clean Water. May cause minor skin irritation; therefore use suitable gloves. Keep out of children reach.

**Conditions Of Sales :**

Sold subject to Company's Condition of Sale, which is available upon request.

**Note :**

All instruction and information are provided by us for the general guidance only and are believed to be accurate and complete. Users must exercise special care and caution depending on the conditions and particular purpose of usage and are responsible to ensure that they have consulted our latest literature. To the maximum extent allowed by law, Saint-Gobain Weber (M) Sdn Bhd, its representatives, agents or distributors shall be under no liability for any loss of profits and other economic or physical losses.

**Marketing Offices :**

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**Member Of :**

- FMM, Malaysia
- MCIG, Malaysia
- MBAM, Malaysia
- MGBC (Malaysia Green Building Confederation)
- SGBC (Singapore Green Building Council)
- SIRIM Working Group - MS 1294 & MS 1295

OHSMS CERTIFIED TO ISO 45001 (CERT NO: MY16 / 02151)  
EMS CERTIFIED TO ISO 14001 (CERT NO: MY13 / 04546)  
QMS CERTIFIED TO ISO 9001 (CERT NO: CI / 3693)

**TILE ADHESIVE (ECO FRIENDLY)**