

DESCRIPTION :

weberset epoxy adhesive is white coloured, 2 component (Resin & Hardener), epoxide resin-based, thin bed adhesive conforming to BS 5980 for a Type 5 Class AA Adhesive, ANSI A118.3 and ISO 13007 – 1 for a reaction resin 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 including swimming pools.

GENERAL PERFORMANCE :

The set adhesive is water impervious and chemical resistant. **weberset epoxy adhesive** is a thin bed adhesive used normally at 2 – 5 mm bed thickness. It combines the advantages of an epoxy resin-based material with those of cement-based adhesive.

weberset epoxy adhesive offers better resistance to a variety of corrosive chemicals, solvents & aqueous salt solutions compared to traditional cement-based mortar. However it is not resistant to all chemicals; therefore advice from Weber Technical Advisory Department should be obtained when attempting to fix tiles to potentially corrosive environment. As it is water impervious, corrosive chemicals cannot penetrate to attack the base substrate to create a bacteria breeding ground. Floors laid with **weberset epoxy adhesive** will support normal pedestrian traffic, light trucks and trolleys after 24 hours. May also be used as a grouting materials for joints up to 6 mm wide.

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

APPLICATION / USAGE :

weberset epoxy adhesive can be used for the following surfaces :

- **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 epoxy adhesive**. 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.
- **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 epoxy adhesive**.
- **Existing Vinyl Tiles** – Existing vinyl tile surface must be dry, sound & free of contaminants. Prime surface with **webermix SBR**, before direct fixing with **weberset epoxy adhesive**.
- **Steel / Metal** – Steel / Metal substrate must be adequately braced to provide a sound / rigid substrate & free of contaminants. Fix direct with **weberset epoxy adhesive**.
- **Patch Repair** – Small areas may be filled using **weberset epoxy adhesive** incorporating 1 p.b.w. sharp sand

TECHNICAL DATA

Colour	: Off White
Density	: 1.50 g/cm ³
Shelf Life	: 12 months
Inflammability	: No
Toxicity Hazard	: No
Bed Thickness	: 2 – 5 mm
Mix Proportion	: Approx. 1 : 3.5 (As per ratio supplied)
Application Mode	: Thin Bed Solid Bed Notched Trowel – Dry areas : Thick Bed Solid Bed Notched Trowel – Wet areas, external tiling, floor tiling, swimming pool.
Adjustability Time	: Approx. 5 minutes at 25°C – may vary depending on porosity of substrate.
Working Time (Pot Life)	: Approx. 30 minutes at 25°C
Initial Set	: Approx. 4 hours at 30°C
Full Set	: 24 hours
Application Temperature	: Above 5°C and at normal ambient temperature
Temperature Resistance	: Prolonged period: 70°C : Intermittent periods: Up to 100°C
Frost Resistance	: Good
Resistance to acids	: Good
Resistance to alkalis	: Good
Resistance to oil & solvents	: Good
Damp Resistance	: Good
Flexibility	: Fair
Tensile Bond Strength at 14 days	: > 3.5 MPa
Shear Bond Adhesion at 14 days	: > 6 MPa
Compressive Strength at 14 days	: > 50 MPa
Flexural Strength at 14 days	: > 25 MPa

TYPICAL USE:

Breweries	Battery Filling Room	Hospital
Dairies	Chemical Plant Room	Kitchen
Latex Industries	Swimming Pool	Garages
Laboratories	Engineering Workshop	Petrol Kiosk
Abattoirs	Palm Oil Industries	Creameries

INSTALLATION PROCEDURE :

- Substrate must be dry, sound, flat / true & free of contaminants.
- Ceramic Tiles are to be fix dry. Do not soak in water.
- Mix RESIN with HARDENER as per the recommended mix ratio (or As Supplied). Mechanical mixing is recommended.
- Spread adhesive to the substrate at bed thickness of 2 – 5 mm (may vary depending on tile size & thickness) with suitable notched trowel.
- Spread no more than 1 m² at a time & promptly fix tiles onto adhesive bed, followed by slight twisting action to ensure good contact ie. Solid Bed Fixing.
- 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 – 48 hours; before grouting commences. .

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** and etc. depending on grouting joints widths and specific areas requirement.

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 3 – 4.5 m centers vertically & horizontally and at the floor perimeter. For wall tiling at storey heights, 3 – 4.5 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.

COVERAGE :

Dependent on nature and flatness of surface, but at 3 mm thickness is approx.. 1 kg per 0.3 m² when using thin bed solid bed notched trowel.

PACKING :

Available in 7.5 and 15 kg buckets.

SHELF LIFE / STORAGE :

At least 12 months; when stored in dry conditions of normal ambient temperature. Re-stir before use.

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.

**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

When fully cured weberset epoxy adhesive is resistant to the following:

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|--|------------------------|
| ** Acetic Acid (5%) | * Acetic Acid (10%) |
| * Acetone | * Acetyl Bromide |
| *** Aluminium Bromide | *** Aluminium Fluoride |
| ** Ammonium Bromide (5%) | *** Baking Soda |
| *** Barium Hydroxide | *** Beer |
| * Benzene | *** Boric Acid |
| *** n-Butanol | * Butyl Acetate |
| *** Calcium Chloride | *** Calcium Hydroxide |
| * Carbon Disulphide | * Carbon Tetrachloride |
| *** Carbonates | *** Carbonic Acid |
| *** Castor Oil | *** Chlorides |
| *** Chlorinated Paraffin | * Chloroform |
| * Chromic Acid | *** Citric Acid |
| *** Coconut Oil | *** Cotton Seed Oil |
| *** Diesel Oil | *** Dilute Detergent |
| *** Ethanol | * Ethyl Alcohol |
| *** Ethylene Glycol | *** Fats |
| *** Ferric Chloride | ** Fish Oil |
| *** Fluorides (except HF) | * Formic Acid |
| *** Gasoline | *** Ground Nut Oil |
| *** Heptane | ** Household Ammonia |
| ** Hydrobromic Acid | ** Hydrochloric Acids |
| *** Kerosene | ** Lactic Acid (3%) |
| * Lime Juice | *** Linseed Oil |
| *** Lubricating Oil | ** Methanol |
| *** Milk | *** Nitrates |
| * Nitric Acid (10%) | *** Oleic Acid |
| *** Olive Oil | *** Palm Kernel Oil |
| *** Palm Oil | ** Paraffin Wax |
| *** Petroleum Products | * Phenol |
| ** Phosphoric Acid (10%) | *** Pine Oil |
| *** Polypropylene Glycol | *** Silicates |
| *** Potassium Hydroxide | *** Sodium Chloride |
| *** Proprietary Sterilizing Agent | *** Sodium Hydroxide |
| *** Sodium Hypochlorite (15% chlorine) | *** Sugars |
| *** Soya Bean Oil | *** Sulphates |
| * Sulphuric Acid (45%) | *** Tannic Acid |
| *** Sunflower Seed Oil | *** Vegeable Oils |
| *** Tetrahydronaphtahalein | *** Water |
| *** 1,1,1 – Trichoroethane | *** White Spirits |

* *Splash Contact Only*

** *Contact for max 24 hours before washing*

*** *Prolonged Contact*

Marketing Offices :**SAINT-GOBAIN WEBER (M) SDN BHD (169772-A)****SELANGOR :**

No. 29 & 31, Jalan TIAJ 2/1, Taman Industri Alam Jaya,
42300 Bandar Puncak Alam, Selangor D. E, Malaysia.
Tel : 603-6038 9498 / 9497 / 9487 Fax : 603-6038 9507

Website : www.mys.weber

E-Mail : info.webermalaysia@saint-gobain.com

PENANG :

No. 8, Lintang Beringin 2, Jalan Permatang Damar Laut
Diamond Valley Light Industrial Park,
11960 Bayan Lepas Penang, Malaysia.

Tel : 604-626 2830 / 2829 Fax : 604-626 2106

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