

## PRODUCT DATA SHEET

# weber set TF eco plus

Eco-Friendly, CO2 Emission reduced, high performance, strong polymerised thin bed cement free tile adhesive with efflorescence resistance properties, designed for interior and exterior tile fixing complied with C2TE S1 class of BS EN 12004:2007+A1:2012

### PRODUCT

**weber set TF eco plus** is a eco-friendly, CO2 Emission reduced, high strength, high performance, cement free, water resistant, and single component tile adhesive. It is designed simply to mix with water to give strong, non-slip, and highly workable adhesive mortar for both interior and exterior applications. With efflorescence resistance properties, it is ideal for installation of porous and vitreous tiles such as marble, granite, ceramic, and homogenous tiles for walls and floors. Suitable substrates include concrete, cement plasters, gypsum boards, brickworks and ALC blockwalls.

### **Uses**

- Tiling for large sized tiles & stones
- Floor tiling
- Interior and exterior wall tiling on render or cement mortar
- Interior and exterior wall tiling on concrete. The concrete should be sufficiently well-aged or cured
- Tiling on gypsum board, cement board, dry wall, gypsum support and anhydrite support as long as the substrate is recommended primed with **weberprim moisture sealer**
- Tiling on cementitious waterproofing material such as the **weber waterproofing** series product

### **Features and Benefits**

- Formulated to comply with European Norm
- Complied with HK G-PASS Platinum rating
- Extra adhesion under exterior weather conditions, especially for exterior condition
- Single component : fixed mixing proportion, ensure the quality of work
- Shrinkage compensated : reduce the chance of shrinkage cracks
- Thixotropic and easy-to-trowel, good workability
- Extended open time of 30 minutes
- Non-slip

### TECHNICAL DATA

Colour	Grey
Component	Ground granulated blast furnace slag, polymer additive, chemical additives, non-reactive aggregate, graded sand
Max. aggregate size	1.0mm
Water demand	Approx. 24-27%(6-6.75L/25kg bag)

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Density	1.45~1.55KG/L(wet)
Pot life	Approx. 55 mins
Coverage	Approx.1.25kg/m2/mm

### Thickness and Theoretical Consumption

Tile size (mm x mm x mm)	Recommended notch size (mm)	Back buttering thickness (mm)	Total thickness (mm)	<b>weber set TF eco plus</b> (grey) consumption (KG/m <sup>2</sup> )
45 x 45 x 6	6	Nil	2.5	3
95 x 45 x 6	6	Nil	2.5	3
100 x 100 x 7	6	Nil	2.5	3
200 x 200 x 7	6	1	3.5	4.2
300 x 300 x 10	6	2	4.5	6.4
600 x 300 x 10	6 – 8	2	6	7.2
600 x 600 x 15	8 – 10	2	6	7.2
1000 x 1000 x 20	10 – 12	2	6	7.2

Consumption (KG/m<sup>2</sup>) = Total thickness of **weber set TF eco plus** (mm) x Coverage (KG/m<sup>2</sup>/mm).

### PHYSICAL PROPERTIES

Adhesion to concrete	EN 12004:2007+A1:2012 Class C2TES1  - Initial adhesion strength - Adhesion strength after heat ageing - Adhesion strength after water immersion - Adhesion strength after freeze-thaw cycles	≥ 1 N/mm <sup>2</sup> ≥ 1 N/mm <sup>2</sup> ≥ 1.N/mm <sup>2</sup> ≥ 1 N/mm <sup>2</sup>
Open time	EN 1346	30 minutes with ≥ 0.5 N/mm <sup>2</sup> adhesive strength
Deformability	EN12002:2002	S1 deformable
Adjustment time	BS 5980	10 minutes
Resistance to Efflorescence	JC/T 1024	No efflorescence after 21 cycles
Slip resistance	EN 1308	≤0.5 mm
VOC content	USEPA Method 24	< 10 g /L

Unless specified, all technical data are average values and refer to curing time of 28 days.

Above physical data are taken on laboratory tests. In situ material performance may vary according to environmental & workmanship conditions beyond manufacturer control.

### Compiled Standards

European Norm: BS EN 12004:2007+A1:2012 Class C2TES1

Chinese Standard : JC/T 1024 : 2007

## **PROCEDURES**

### **Substrate Preparations**

Substrate must be free from grease, mould oil, rust, rusty metal, wood peels, paints, plastics, loose particles, contamination on any traces of foreign materials affecting the adhesion of **weber set TF eco plus**.

### **Mixing and Installation**

**weber set TF eco plus** can be applied at least 7 days after the application of render.

Before application, dampen the surface with clean water and allow excess water to drain away.

Mix a bag of dry mix powder (25 kg) with approx. 25 – 28% (6.3 – 7 L) of water by using an electric mixer. Actual water demand should be adjusted in accordance with the site condition.

Stir the mixture thoroughly for 5 – 7 minutes to a creamy paste without lumps.

Apply **weber set TF eco plus** by using a notched trowel directly onto substrate, over which tiling can be achieved within 30 minutes under normal temperature and humidity condition. Do not spread **weber set TF eco plus** more than 1 m<sup>2</sup> before tiling. Unfavourable weather conditions such as strong sunshine, low humidity, high wind speed, or highly water-absorbed substrates reduce the open time of tile adhesive.

When the surface of tile adhesive is dried, do not use water to wet the surface. It will form a very weak and non-adhesive layer.

It is recommended to use **weber grout fine** for grouting 6 hours after tiling

For fixing light colour natural stones in continuous wet floor areas, please consult our Technical department for details.

Details of the procedure please refers to our Method Statement.

### **Curing**

Natural air curing for **weber set TF eco plus** is enough.

## **STORAGE AND PACKING**

**weber set TF eco plus** is delivered in 25 kg bag. Storage life is 6 months if the product is kept in a dry place.

## **HEALTH AND SAFETY**

Recommend to wear NIOSH approved or equivalent particulate face mask when mixing the material. Material contains cement, which may produce an allergic effect.

Keep out of reach of children.

Material may cause irritation to eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water.

Please refer to Material Safety Data Sheet (MSDS) for health, safety and handling of the product.

### **CLEANING & DISPOSAL OF WASTE**

Cured material can be removed mechanically, if uncured, material can be removed with water. Dispose of waste in accordance with legislation

\* Note: The information and physical data in this catalogue is given to the best of our knowledge under standard testing method and controlled environment. The results may vary with different weather / site conditions, workmanship or substrates. This is beyond our control that we shall not be liable for any faults or consequences arising or associated with this. We suggest comprehensive tests to be conducted before final application. Unless specified, all technical data are average values with curing time of 28 days. We reserve the right to update or amend the contents in the light of new findings during the course of research and development.