

PRODUCT DATA SHEET

weber set effloguard TF

(Formerly known as E.MIX Effloguard TF)

High strength, deformable, low alkalinity tile adhesive for all kinds of tile with efflorescence resistance properties complied with C2TE class of EN 12004 and S1 class of EN 12002

PRODUCT

weber set effloguard TF is a high strength, deformable polymerized tile adhesive for all kinds of tiles installation. The product is made by low alkalinity binders which reduce the formation of efflorescence. It is suitable for low water absorption tiles for internal and external wall. Suitable substrates are concrete, cement plasters, gypsum boards, brickworks and ALC blockwalls. It is more appropriate to apply other **weber effloguard series** products together for a better efflorescence resistance performance.

Uses

- Specially suitable for exterior and in wet condition wall and floor tile fixing
- Tiling for low water absorption tile, such as homogeneous tile
- Tiling for large sized tile up to 1m x 1m

Features and Benefits

- Lower alkalinity to reduce chances of efflorescence
- Deformable, suitable for deformable substrate
- Extra adhesion under exterior weather condition, special for exterior condition
- Single component: fixed mixing proportion, ensure the quality of work
- Non-slip
- Formulated to comply with European Norm and Chinese Standard
- Complied with HK G-PASS Gold rating

TECHNICAL DATA

Colour	Beige white
Component	Low Portlandite cement system, polymer additive, chemical additives, non-reactive aggregate, graded sand
Max. aggregate size	0.5 mm
Water demand	Approx. 25% – 28% or 6.3 – 7 L/25 kg bag
Density	1.3 kg/L (dry) 1.6 kg/L (wet) for using 26% water demand
Pot life	Approx. 45 mins
Coverage	Approx. 1.2 kg/m ² /mm



Thickness and Theoretical Consumption

Tile size (mm x mm x mm)	Recommend notch size (mm)	Back buttering thickness (mm)	Total thickness (mm)	weberset effloguard TF consumption (kg/m ²)
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/m²) = Total thickness of **weberset effloguard TF** (mm) x Coverage (kg/m²/mm)

PHYSICAL PROPERTIES

Adhesion to concrete	EN 1348 · Initial adhesion strength · Adhesion strength after heat ageing · Adhesion strength after water immersion · Adhesion strength after freeze-thaw cycles	2.0 N/mm ² 2.5 N/mm ² 1.7 N/mm ² 2.3 N/mm ²
Open time	EN 1346	30 minutes with ≥ 0.5 N/mm ² adhesive strength
Slip resistance	EN 1308	≤ 0.5 mm
Transverse Deformation	EN 12002	S1 class
Resistance to Efflorescence	JC/T 1024	No efflorescence after 21 cycles
pH value	EN 12859	10 - 11
Total VOC content	USEPA method 24	< 10 g/L

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

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

Complied Standards

European Norm : EN 12004 : 2007 Class C2TE, EN 12002 Class S1, EN 12859
Chinese Standard : JC/T 1024 : 2007, JC/T 547 : 2017 Class C2TE S1
American Standard : USEPA method 24

PROCEDURE

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 **weberset effloguard TF**.

Mixing and Installation

weberset effloguard TF 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 3 – 5 minutes to a creamy paste without lumps.

Apply **weberset effloguard TF** 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 **weberset effloguard TF** more than 1 m² 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 **webergROUT effloguard TG** 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 **weberset effloguard TF** is enough.

STORAGE AND PACKING

weberset effloguard TF 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.