PRODUCT DATA SHEET

weberset 303

(Formerly known as E.MIX TILE FIX 303)

Strong polymerized thin bed tile adhesive for interior and exterior wall tile fixing complied with C1TE class of EN 12004

PRODUCT

weberset 303 is a cementitious, water resistant, and single component tile adhesive. It is designed simply to mix with water to give strong, non-slip, extended open time, and highly workable adhesive mortar for both interior and exterior applications. 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 tile size not greater than 600 mm x 300 mm
- Floor tiling for small and medium sized tiles
- Interior and exterior wall tiling on render or cement mortar
- Interior and exterior wall tiling on concrete. The concrete should be sufficiently wellaged or cured
- Tiling on gypsum board, cement board, dry wall, gypsum support and anhydrite substrate should be primed before hand 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, British Standard and Chinese Standard
- Strong adhesion under exterior weather conditions
- Single component : fixed mixing proportion, ensure the quality of work
- Thixotropic and easy-to-trowel, good workability
- Extended open time of 30 minutes
- Adjustable within 10 minutes
- Non-slip

TECHNICAL DATA

Colour	Grey or White	
Component	Portland cement, non-reactive aggregate, graded sand and other chemical additives	
Max. aggregate size	1.0 mm	
Water demand	Grey: Approx. 26 – 29% (10.4 – 11.6 L/40 KG bag) White: Approx. 27 – 30% (10.8 – 12.0 L/40 KG bag)	
Density	Grey: 1.4 KG/L (dry) Grey: 1.4 KG/L (wet) for 26% water demand	White: 1.3 KG/L (dry) White: 1.5 KG/L (wet) for 27% water demand
Pot life	Approx. 3 hours	
Coverage	Grey : Approx. 1.15 kg/m^2/mm	White : Approx. 1.2 kg/m^2/mm

SAINT-GOBAIN

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THICKNESS AND CONSUMPTION

Tile size (mm x mm x mm)	Recommend notch size (mm)	Back buttering thickness (mm)	Total thickness (mm)	**weberset 303** Grey consumption (kg/m^2)	**weberset 303** White consumption (kg/m^2)
45 x 45 x 6	6	Nil	2.5	2.9	3
95 x 45 x 6	6	Nil	2.5	2.9	3
100 x 100 x 7	6	Nil	2.5	2.9	3
200 x 200 x 7	6	1	3.5	4.0	4.2
300 x 300 x 10	6	2	4.5	5.2	5.4
300 x 600 x 10	6 – 8	2	6	6.9	7.2

Consumption (kg/m^2) = Total thickness of **weberset 303** (mm) x Coverage ($kg/m^2/mm$)

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	 ≥ 0.5 N/mm^2 ≥ 0.5 N/mm^2 ≥ 0.5 N/mm^2 ≥ 0.5 N/mm^2
Shear adhesive strength	BS 5980	≥ 10 kN
Open time	EN 1346	30 minutes with ≥ 0.5 N/mm^2 adhesive strength
Adjustment time	BS 5980	10 minutes
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 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 C1TE
British Standard : BS 5980 : 1980 Type 1 Class AA
Chinese Standard : JC/T 547 : 2005 Class C1TE

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 303**.

Mixing and Installation

weberset 303 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-mixed powder (40 KG) with appropriate amount of water by using an electrical mixer. Add approx. 26 – 29% (10.4 – 11.6 L) of water for grey powder / 27 – 30% (10.8 – 12.0 L) of water for white powder.

Stir the mixture thoroughly for 5 – 7 minutes to obtain a creamy paste without lumps. Let the mixture stand for 10 minutes for the additives to dissolve, and then mix again before use.

Apply **weberset 303** by using a notched trowel directly onto substrate, over which tiling can be achieved within 30 minutes under normal temperature and humidity condition. Unfavourable weather conditions such as strong sunshine, low humidity, high wind speed, or highly water-absorbed substrates can reduce the open time of tile adhesive.

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

It is recommended to use **webergrout** for grouting 1 day after tiling.

Please refer to our method statement for procedures in details.

Curing

Natural air curing is enough for **weberset 303**.

STORAGE AND PACKING

weberset 303 is delivered in 40 kg bag. Storage life is 12 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.