PRODUCT DATA SHEET

weberset mosaic

(Formerly known as E.MIX MOSAIC FIX AND GROUT)

Tiling and grouting in one for Mosaic or small size ceramic tile for interior and exterior wall tile fixing complied with C2 class of EN 12004 and CG2 class of EN 13888

PRODUCT

weberset mosaic is a cementitious, waterproof, 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. Ideal for installation of mosaic tile and perfectly match with the traditional mosaic tile application method. Mosaic tile fixing and grouting can be done in one step. Suitable substrates are concrete, cement plasters, gypsum boards, brickworks and ALC blockwalls.

Uses

- Tiling for Mosaic
- Tiling for ceramic tile which size less than 45 mm x 95 mm
- Interior and exterior wall tiling on renders or cement mortar
- Interior and exterior wall tiling on concrete. The concrete should be sufficiently 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** for wall or **weberfloor primer** for floor
- Tiling on cementitious waterproofing material such as **weber waterproofing series**

Features and Benefits

- Formulated to comply with European Norm
- Tiling and grouting can be done in one step
- Single component: fixed mixing proportion, ensure the quality of work
- Non-slip
- Shrinkage compensated: reduce the shrinkage cracks

TECHNICAL DATA

Colour	White or different colours upon request
Component	Portland cement, non-reactive aggregate, graded sand and other chemical additives
Max. aggregate size	0.5 mm
Water demand	Approx. 28 – 32 % or 7 – 8 L/25 kg bag
Density	1.1 kg/L (dry) for White 1.8 kg/L (wet) for White using 28% water demand
Pot life	Approx. 1 hour
Coverage	White: Approx. 1.5 kg/m^2/mm

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THICKNESS AND THEORETICAL CONSUMPTION

Bedding : 3 kg/m^2 for 2 mm thickness

Tile Dimension (mm)			Total Consumption (kg/m^2) together with 2 mm bedding		
			Joint width (mm)		
Length	Width	Thickness	2	3	5
20	20	4	4.2	-	-
50	50	4	3.5	-	-
95	45	7	-	4.0	4.7

$$\text{Total consumption (kg/m}^2\text{)} = \frac{(\text{Tile length} + \text{Tile width}) \times \text{Tile thickness} \times \text{Joint width}}{\text{Tile length} \times \text{Tile width}} \times \text{Coverage (kg/m}^2\text{/mm)} + \text{2 mm bedding Consumption (kg/m}^2\text{)}$$

PHYSICAL PROPERTIES

Adhesion to concrete	EN 1348 ・ Initial adhesion strength ・ Adhesion strength after heat aging ・ Adhesion strength after water immersion ・ Adhesion strength after freeze-thaw cycles	 1.6 N/mm^2 1.4 N/mm^2 1.4 N/mm^2 2.7 N/mm^2
Abrasion resistance	EN 12808-2	684 mm^3
Compressive strength	EN 12808-3 ・ After dry storage ・ After freeze-thaw cycle	 23.7 N/mm^2 23.6 N/mm^2
Flexural strength	EN 12808-3 ・ After dry storage ・ After freeze-thaw cycle	 7.2 N/mm^2 2.9 N/mm^2
Linear shrinkage	ANSI A118.6 ・ After 24 hours ・ After 7days EN 12808-4 ・ After 28 days	 ≤ 0.4 mm/m ≤ 1.2 mm/m 1.885 mm/m
Water absorption	EN 12808-5 ・ After 30 min ・ After 240 min	 0.4 g 1.1 g
Water absorption	50% R.H. to immersion Immersion to dry	2.5% 4.8%
Resistance to mould growth	BS 5980	No mould growth

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 C2, EN 13888 : 2009 Class CG2

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 mosaic**.

Mixing and Installation

weberset mosaic can be applied at least 7 days after the application of render.

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

Mix a bag of dry mix powder (25 kg) with approx. 7 – 8 (28 – 32%) of water.

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

Apply **weberset mosaic** with thickness of 2 – 3 mm by using a trowel directly onto substrate, over which tiling can be achieved within 20 minutes under normal temperature and humidity. Unfavourable weather conditions such as strong sunshine, low humidity, high wind speed, or highly absorbed substrates reduce the open time of the tile adhesive.

Apply **weberset mosaic** on the back side of mosaic tile diagonally by using a rubber, or sponge trowel, or other suitable tools.

Force and compact a maximum amount of **weberset mosaic** deep into the joints.

Firmly press the grouted mosaic tiles directly on top of the bedding immediately, and knock the tile into position when the mortar is still tacky.

Damp the paper on the mosaic tiles, and remove it after 15 minutes.

Please refer to our method statement for procedures in details.

Curing

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

STORAGE AND PACKING

weberset mosaic is delivered in 25 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.

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.