

## PRODUCT DATA SHEET

# webergROUT fine

(Formerly known as E.MIX TILE GROUT FINE)

Cement based tile grout for wall and floor grouting with joint width of 1 - 6 mm complied with CG2WA class of EN 13888

### PRODUCT

**webergROUT fine** is a cementitious single component tile grout. It is designed for grouting porous and vitreous tiles on interior or exterior walls and floors with joint width of **1 – 6 mm**. The grout is shrinkage compensated which can prevent cracking. **webergROUT fine** has low water absorption and high adhesion to tiles and tile adhesive. There is a wide range of colours available to match different tiles.

### Uses

- Grouting for ceramic, vitrified tile and marble that with joint width 1 – 6 mm
- Grouting for industrial flooring where resistance to chemical is not required

### Features and Benefits

- Formulated to comply with European Norm, American Standard, British Standard and Chinese Standard
- Shrinkage compensated: reduce the chance of shrinkage cracks
- Good abrasion resistance
- Good compressive and flexural strength
- Resistance to acidic cleanser with pH > 3

### TECHNICAL DATA

Colour	Custom
Component	Portland cement, non-reactive aggregate, graded sand and other chemical additives
Max. aggregate size	0.3 mm
Water demand	Approx. 25% – 28% ( 6.3 – 7 L /25kg bag )
Density	1.1 g/cm <sup>3</sup>
Pot life	Approx. 1 hour
Coverage	Approx. 1.5 kg/m <sup>2</sup> /mm

### THEORETICAL CONSUMPTION ON THE SIZE OF TILE

Tile Dimension (mm)			Consumption (kg/m <sup>2</sup> )		
			Gap width (mm)		
Length	Width	Thickness	2	3	5
20	20	4	<b>1.2</b>	-	-
50	50	4	<b>0.5</b>	-	-
95	45	7	-	<b>1.0</b>	<b>1.7</b>
230	60	7	-	<b>0.7</b>	<b>1.1</b>
150	75	6	-	<b>0.5</b>	<b>0.9</b>
100	100	6	-	<b>0.5</b>	<b>0.9</b>
150	150	6	-	<b>0.4</b>	<b>0.6</b>
200	200	8	-	<b>0.4</b>	<b>0.6</b>
200	300	8	-	<b>0.3</b>	<b>0.5</b>
300	300	8	-	<b>0.2</b>	<b>0.4</b>
300	300	10	-	<b>0.3</b>	<b>0.5</b>
300	300	20	-	-	<b>1.0</b>
300	600	10	-	<b>0.2</b>	<b>0.4</b>
330	330	10	-	<b>0.3</b>	<b>0.5</b>
450	450	12	-	-	<b>0.4</b>
600	600	12	-	-	<b>0.3</b>

$$\text{Consumption (kg/m}^2\text{)} = \frac{(\text{Tile length} + \text{Tile width}) \times \text{Tile thickness} \times \text{Gap width}}{\text{Tile length} \times \text{Tile width}} \times \text{Coverage (kg/m}^2\text{/m m)}$$

### PHYSICAL PROPERTIES

Abrasion resistance	EN 12808-2	127.8 mm <sup>3</sup>
Compressive strength	EN 12808-3 • After dry storage • After freeze-thaw cycle	17.6 N/mm <sup>2</sup> 17.3 N/mm <sup>2</sup>
	EN 13888 After dry storage	17.6 N/mm <sup>2</sup>
Flexural strength	EN 12808-3 • After dry storage • After freeze-thaw cycle	6.6 N/mm <sup>2</sup> 6.5 N/mm <sup>2</sup>
	EN 13888 • After dry storage	6.6 N/mm <sup>2</sup>
Linear shrinkage	ANSI A 118.6 • After 24 hours • After 7 days	0.3 mm/m 1.4 mm/m
	EN 12808-4 • After 28 days	1.9 mm/m
Water absorption	EN 12808-5 • After 30 minutes	0.2 g
	• After 240 minutes	0.4 g

Water absorption	ANSI A 118.6 • 50% R.H. to immersion • Immersion to dry	3.3% 4.9%
Resistance to mould growth	BS 5980	No mould growth
Tensile strength	BS 5980	≥ 950 N
VOC content	USEPA method 24	3 g/L
Suitability for use in contact with portable water	BS 6920 section 2 - Odour and Flavour - Appearance - Growth of aquatic micro-organisms - Extraction of substances that may be of concern to public health - Extraction of metal	Complied Complied Complied Complied Complied

Unless specified, all technical data refers 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 13888 : 2002 Class CG2WA
American Standard	:	ANSI A118.6 : 1992, USEPA method 24
British Standard	:	BS 5980 : 1980 Part 7. 9
Chinese Standard	:	JC/T 1004 : 2006 Class CG2WA

#### 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 **webergROUT fine**.

##### Mixing and Installation

**webergROUT fine** can be applied at least 1 day after tiling.

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

Mix a bag of dry-mixed powder (25 KG) with appropriate amount of water by using an electrical mixer. Add approx. 25 – 28% (6.3 – 7 L) of water.

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

Apply **webergROUT fine** grouting mortar to the tiled wall with a rubber, or sponge trowel, or other suitable tool diagonally over the tiles. Force and compact maximum amount of grout deep into the joints.

Excess grout on the tiles should be wiped away diagonally by using a rubber or sponge trowel.

Allow the grout to dry for 15 – 30 minutes, depending on temperature and humidity, then clean the tile surface by a damp coarse cloth or sponge. The cloth or sponge shall be dry enough to minimize “pulling” or “shirking” of joint.

Please refer to our method statement for procedures in details.

### **Curing**

Natural air curing is enough for **webergROUT fine**.

### **STORAGE AND PACKING**

**webergROUT fine** 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.