PRODUCT DATA SHEET

weberset 383

Extra strength, highly flexible, high-performance, deformable polymerised thin bed tile adhesive for interior and exterior wall tile fixing, complying with C2TE class of EN 12004 and S1 class of EN 12002 (S2 class can be achieved by adding **webertec EVA**)

PRODUCT

weberset 383 is a deformable, highly flexible, water-resistant, and single-component cementitious 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. Ideally designed for the installation of different kinds of tiles and especially for tile-on-tile and renovation applications. Suitable substrates are concrete, cement plasters, gypsum boards, brickworks and ALC blockwalls. The product is highly flexible and ideal for large-sized tiles. Extra flexibility (S2 class of EN 12002) can be achieved by adding **webertec EVA**.

Uses

- Tiling for large-sized tiles and stones
- Tiling on old tiles
- Can be applied on various non-absorbent substrates
- Floor tiling is subject to heavy stress
- Interior and exterior wall tiling on cement-sand renders, mortars and concrete.
- Tiling on gypsum board, fibrecement board, dry wall; gypsum-based substrate should be primed with **weberprim moisture sealer**
- Tiling on cementitious waterproofing material such as **weberdry series.**

Features and Benefits

- Formulated to comply with European Norm, American Standard and Chinese Standard
- Specially formulated for renovation and application on old tile
- Extra adhesion under exterior weather conditions
- Deformable and flexible adhesive suitable for large tile applications.
- Single component: fixed mixing proportion, ensures the quality of work
- Thixotropic and easy-to-trowel, good workability
- Extended open time of 30 minutes and slip-resistant

TECHNICAL DATA

Colour	Grey, White	
Component	Portland cement, non-reactive aggregate, graded sand and other chemical additives	
Max. aggregate size	1.0 mm	
Water demand	Grey: Approx. 24 – 27% (9.6 – 10.8 L/40 kg bag) White: Approx. 27 – 30% (10.8 – 12.0 L/40 kg bag)	
Density	Grey: 1.3 kg/L (dry) Grey: 1.4 kg/L (wet) for 26% water demand	White: 1.2 kg/L (dry) White: 1.4 kg/L (wet) for 27% water demand

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Pot life	Approx. 3 hours	
Coverage	Grey: Approx. 1.15 kg/m^2/mm	White: Approx. 1.15 kg/m^2/mm

THICKNESS AND THEORETICAL CONSUMPTION

Tile size (mm x mm x mm)	Recommend notch size (mm x mm)	Back buttering thickness (mm)	Total thickness (mm)	**weberset 383** Grey consumption (kg/m^2)	**weberset 383** White consumption (kg/m^2)
45 x 45 x 6	6 x 6	Nil	2.5	2.9	2.9
95 x 45 x 6	6 x 6	Nil	2.5	2.9	2.9
100 x 100 x 7	6 x 6	Nil	2.5	2.9	2.9
200 x 200 x 7	6 x 6	1	3.5	4.0	4.0
300 x 300 x 10	6 x 6	2	4.5	5.2	5.2
600 x 300 x 10	10 x 10	2	6	6.9	6.9
600 x 600 x 15	10 x 10	2	6	6.9	6.9
1000 x 1000 x 20	10 x 10	2	6	6.9	6.9

Consumption (kg/m^2) = Total thickness of **weberset 383** (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	 2.4 N/mm^2 2.7 N/mm^2 1.3 N/mm^2 1.7 N/mm^2
Open time	EN 1346 (30 minutes)	1.2 N/mm^2
Slip resistance	EN 1308	≤ 0.5 mm
Deformability	EN 12002 S1: deformable S2: highly deformable (can be achieved by the addition of **webertec EVA)**	 2.8 mm 7.4 mm
VOC Content	ASTM D3960	3 g/L

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

The above physical data are taken from laboratory tests. In situ material performance may vary according to environmental & workmanship conditions beyond the manufacturer's control.

Complied Standards

European Norm	:	BS EN 12004: 2007, BS EN 12002 : 2002
American Standard	:	ASTM D3960
Chinese Standard	:	JC/T 547: 2017

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 383**.

Mixing and Installation

weberset 383 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 (40 kg) with an appropriate amount of water by using an electrical mixer. Add approx. 24 – 27% (9.6 – 10.8 L) of water; for **weberset 383 (**White), add 10.8 – 12.0 L (27 – 30%) 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 383** by using a notched trowel directly onto the substrate, over which tiling can be achieved within 30 minutes under normal temperature and humidity conditions. Unfavourable weather conditions such as strong sunshine, low humidity, high wind speed, or highly water-absorbing substrates reduce the open time of tile adhesive.

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

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

Please refer to our method statement for procedures in detail.

Curing

Natural air curing is enough for **weberset 383**.

STORAGE AND PACKING

weberset 383 is delivered in a 40 kg bag. Storage life is 12 months if the product is kept in a dry place.

HEALTH AND SAFETY

Recommend wearing a NIOSH-approved or equivalent particulate face mask when mixing the material.

The material contains cement, which may produce an allergic reaction.

Keep out of reach of children.

Material may cause irritation to the eyes and skin. In case of contact with the 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 the 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 are given to the best of our knowledge under standard testing methods and a controlled environment. The results may vary with different weather/site conditions, workmanship or substrates. This is beyond our control, and we shall not be liable for any faults or consequences arising from or associated with this. We suggest that comprehensive tests be conducted before the final application. Unless specified, all technical data are average values with a 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.

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