



PRODUCT DATA SHEET

weber set 353

High performance, high strength, highly flexible, strong polymerised thin bed tile adhesive for interior and exterior tile fixing, complying with C2TE class of BS EN 12004-1:2017

PRODUCT

weber set 353 is a high-strength, high-performance, 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 the 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 large tiles and stones
- Floor tiling
- Interior and exterior wall tiling on render or cement mortar
- Interior and exterior wall tiling on concrete. The concrete should be sufficiently well-aged or cured
- Tiling on gypsum board, cement board, dry wall, gypsum support and anhydrite support, as long as the substrate is recommended to be primed 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, American Standard, British Standard, Chinese Standard and local Hong Kong Housing Authority Standards
- HKCI Product Conformity Certification Scheme for Tile Adhesive (PCCS-TA)
- CIC Green Product Certification (Platinum Rating)
- Extra adhesion under exterior weather conditions, especially for exterior conditions
- Single component: fixed mixing proportion, ensure the quality of work
- Shrinkage compensated: reduces the chance of shrinkage cracks
- 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. 26 – 29% (10.4 – 11.6 L/40 kg bag) White: Approx. 27 – 30% (10.8 – 12.0 L/40 kg bag)

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Density	Grey: 1.3 kg/L (dry) Grey: 1.4 kg/L (wet) for 26% water demand	White: 1.2 kg/L (dry) White: 1.5 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

Thickness and Theoretical Consumption

Tile size (mm x mm x mm)	Recommended notch size (mm)	Back buttering thickness (mm)	Total thickness (mm)	weberset 353 (grey) consumption (kg/m ²)	weberset 353 (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
600 x 300 x 10	6 - 8	2	6	6.9	7.2
600 x 600 x 15	8 - 10	2	6	6.9	7.2
1,000 x 1,000 x 20	10 -12	2	6	6.9	7.2

Consumption (kg/m²) = Total thickness of **weberset 353** (mm) x Coverage (kg/m²/mm).

PHYSICAL PROPERTIES

Adhesion to concrete	EN 1348: 2007 JC/T 547: 2017 - Initial adhesion strength - Adhesion strength after heat ageing - Adhesion strength after water immersion - Adhesion strength after freeze-thaw cycles	1.9 N/mm ² 1.6 N/mm ² 1.1 N/mm ² 1.4 N/mm ²
Open time	EN 1346: 2007 (30 mins)	1.1 N/mm ²
Adjustment time	BS 5980: 1980	10 minutes
Slip resistance	EN 1308: 2007	≤ 0.5 mm
VOC content	USEPA Method 24	< 10 g/L
Suitability for use in contact with portable water	BS 6920 section 2: 2014 - 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 are average values and refer to curing time of 28 days.

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.

Compiled Standards

European Norm : BS EN 12004:2007+A1:2012
American Standard : ASTM D3960
British Standard : BS 5980: 1980
Chinese Standard : JC/T 547: 2017

PROCEDURES

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 353**.

Mixing and Installation

weberset 353 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 an 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 353** 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 can reduce the open time of tile adhesive.

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

It is recommended to use **weber Tile Grout** for grouting 1 day after tiling.

Please refer to our method statement for procedures in detail.

Curing

Natural air curing is enough for **weberset 353**.

STORAGE AND PACKING

weberset 353 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 NOISH-approved or equivalent particulate face mask when mixing the material.

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

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.

Keep out of reach of children.

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.