

# weber set superflex 21

C2TE Tile Adhesive for Large Porcelain Tiles



LEADER  
SGBP 3913

**weber set superflex 21** is a single-component, semi-flexible, water-resistant, cement-based adhesive for thin or thick bed applications. It is classified as a C2TE adhesive with high strength, extended open time and slip resistance. Suitable for 3-6 mm bed thickness, and up to 12 mm in small isolated, uneven areas.

## PRODUCT BENEFITS



**ECO FRIENDLY**



**HIGH STRENGTH**



**APPLICATION DEPTH**

## USAGE

Ideal for fixing a wide range of tiles and stones, including ceramic, porcelain, vitrified, mosaics, natural stones, brick veneer, and decorative stones, on walls and floors in dry or wet, interior or exterior environments. It is not suitable for skim-coated plaster, painted, or metal surfaces. Suitable substrates include well-cured concrete (minimum 6 weeks), brick walls and lightweight concrete blocks (minimum 4 weeks, leveled with cement-sand mortar), autoclaved aerated concrete (AAC) blocks (primed and leveled), cement-sand render and screed (cured 2-3 weeks), existing tiles or stone surfaces (dry, sound, contaminant-free), vinyl tiles (primed), rigid building boards (primed), and strong timber floors overlaid with marine plywood.

## TECHNICAL DATA & PHYSICAL PROPERTIES

Colour	Grey/White
Density	Approx. 1.6 g/m <sup>3</sup>
pH	12
Dry Solid Content	100 %
Bed Thickness	3-6 mm
Water Demand	Approx. 24-26 % or 6-6.5 litres/25 kg bag
Adjustability Time	Approx. 15 minutes
Working Time (Pot Life)	Approx. 3-4 hours
Open Time @ 25°C (ISO 13007-2 Clause 4.1)	Approx. 30 minutes
Setting Time	Approx. 24 hours
Application Temperature	5-40 °C
Temperature Resistance	100 °C
Frost Resistance	-15 °C
Resistance to Acids	Fair
Resistance to Alkalis	Good
Resistance to Oil & Solvents	Fair
Damp Resistance	Good
Flexibility	Good
Tensile Adhesion Strength (ISO 13007-2 Clause 4.4)	1.6-1.9 N/mm <sup>2</sup> (After 28 days air cure) 1.2-1.5 N/mm <sup>2</sup> (After water immersion) 1.2-1.5 N/mm <sup>2</sup> (After heat aging)
Classification under (ISO 13007-1)	C2TE Adhesive

Specifications are subject to change without notification. Results shown are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance will depend on installation methods and site conditions.

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## CONSUMPTION

Approx. 3 kg/m<sup>2</sup> at 3 mm bed thickness or approx. 6 kg/m<sup>2</sup> at 6 mm bed thickness.

## PROCEDURE & APPLICATION



### Substrate Preparation

All surfaces must be clean, sound, and free from any laitance, oil, grease, and any contaminants. Ceramic tiles are to be fixed dry. Do not soak in water.



### Mixing

Mix weber set superflex 21 with the required amount of clean water or latex admixture (webermix admix 1, webermix admix plus or webermix multibond). weber set superflex 21 requires mixing with water unless special conditions where latex admixture can be used in replacement of water, to enhance physical properties. Mechanical mixing is recommended.



### Application

Spread weber set superflex 21 (slurry consistency) with a suitable notched trowel on a semi-dry substrate. Spread no more than 1 m<sup>2</sup> at a time to avoid skin-over. Fix tiles onto the adhesive bed, followed by a slight twisting action to secure contact. Touch the adhesive bed periodically to check for skin-over. Adjustability time varies and is approx. 15 minutes. Allocate joints of approx. 2-3 mm wide between tiles. Remove surplus adhesive from tile surface and joints before it hardens. The adhesive should not be used in temperatures lower than 5°C or in damp conditions.



### Grouting

Grouting of tile joints should only commence at least 24 hours after completion of tiling or until the adhesive has set. Setting may be delayed on dense or impervious surfaces. Use weberfill fine grout or weberfill f&w grout and etc. depending on grouting joints widths and specific areas requirement.



### Movement Joints (BS 5385: Part 1-5)

- Over existing structural joints.
- Where tiling abuts other materials.
- At junctions between different background materials.
- In large areas of floor or wall tiling, at 3-4.5 m centres vertically & horizontally and the floor perimeter or corners.
- Around a fix structure i.e., column or machinery.
- Where stresses are concentrated i.e., changes in the wall or floor alignment.

## STORAGE & PACKING

weber set superflex 21 is available in 25 kg bags.

Shelf life of 12 months if unopened, and kept in sheltered and dry conditions.

## HEALTH & SAFETY

weber set superflex 21 contains cement, which may produce an allergic effect. Material may irritate eyes and skin. In case of contact with eyes, rinse immediately with plenty of water, and seek medical assistance. After contact with the skin, wash immediately with plenty of soap and water. Please keep out of reach of children.

\*Note Because it is not possible to give specific instructions for the various site conditions or to control the applications, the information on this Technical Data Sheet is for general guidance only. Saint-Gobain Weber (M) Sdn Bhd reserves the rights to amend the contents of the data sheet at its sole discretion. (Sep '25)



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