

weber set superflex 21

Tile Adhesive for Large Porcelain Tiles on Wall and Floor



weber set superflex 21 come in grey or white coloured, water resistant, "Single component Semi-Flexible", latex fortified (with additives) cement-based, thin or thick bed adhesive.

PRODUCT BENEFIT



APPLICATION DEPTH



FOR WET & DRY AREAS



DEFORMABLE/FLEXIBILITY

USAGE

Suitable for fixing Ceramic Wall & Floor Tiles, Vitrified Homogeneous Tiles, Porcelain Tiles, Mosaics, Quarry Tiles, Terracotta, Marbles, Granites, Slates, Terrazzo, Brick Veneer, Decorative Stones etc., to wall & floor, dry or wet, interior or exterior areas.

TECHNICAL DATA & PHYSICAL PROPERTIES

Colour	Grey / White
Density	Approx. 1.6 g/m ³
pH	Approx. 12
Dry Solid Content	100 %
Shelf Life	12 months
Bed Thickness	3-6 mm
(Finished Thickness)	
Mix Proportion	1 pbw water to approx. 4 pbw adhesive (6.0 - 6.5 ltrs water /
Latex	Admixture to 25 kg weber set superflex 21)
Application Mode	Thin Bed Solid Bed Notched Trowel - dry areas
	Thick Bed Solid Bed Notched Trowel - wet areas, external
tiling &	floor tiling.
Adjustability Time	15 minutes at 30°C - may vary depending on porosity of
substrate.	
Working Time (Pot Life)	3 - 4 hours
Open Time	30 minutes at 25°C
ISO 13007-2 Clause 4.1	May vary depending on porosity of substrate
Setting Time	24 hours
Application Temperature	5°C - 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	
ISO13007 - 2 Clouse 4.4	
After 28 Days Air Cure	1.6 - .1.9 N/mm ²
After Heat Aging	1.2 - 1.5 N/mm ²
After Water Immersion	1.2 - 1.5 N/mm ²
Classification under	C2 TE Adhesive
ISO 13007 - 1	

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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Premium Grade Ceramic Tile Adhesive For Internal & External

GENERAL PERFORMANCE

weberset superflex 21 is fortified with additives. Requires mixing with Clean Water only; therefore eliminate use of expensive Latex Admixture and allows for easier on-site mixing. More economical & user friendly compare to conventional two-component adhesive system. **weberset superflex 21** offers improved adhesion strength, flexural strength, durability and reduce water permeability; compared to conventional cement-based adhesive.

It is specially formulated for the installation of Vitrified or Porcelain Homogenous Tiles (or other tiles / mosaics) & Marble or Granite Slabs with low water absorption rate (ie. < 0.5%) and for installation onto demanding substrate (See Application).

The set adhesive is water resistant but not impervious to water. **weberset superflex 21** is a thin or thick bed adhesive used normally at 3 - 6 mm bed thickness, but up to 12 mm for small isolated, uneven areas of limited extent.

Although in most cases it requires mixing with water only; there is special conditions where Latex Admixture (ie. **mix admix 1**, **webermix admix plus**, **webermix multibond** etc.) must be used with **weberset superflex 21**, to further enhance the physical properties of the set adhesive.

Not recommended for use on skim-coat plaster, paint and metal.

APPLICATION (SUBSTRATE)

weberset superflex 21 can be used for the following surfaces

- **Concrete** - Must be aged for 6 weeks. Direct fixing onto concrete may be taken provided the surface is flat or true, well cured and free of contamination. Surface primer is required for direct fixing.
- **Brick Wall** - Must be aged for 4 weeks and leveled with Cement-Sand Mortar (**E.MIX Render Series**) prior to fixing tiles.
- **Lightweight Concrete Blocks** - Must be aged for 4 weeks and leveled with Cement-Sand Mortar (**E.MIX Render Series**) prior to fixing tiles. Direct fixing onto Block Wall is not recommended.
- **Autoclaved Aerated Concrete Blocks (AAC)** - Must be aged for 4 weeks and leveled with Cement-Sand Mortar (ie. **E.MIX ALC Render**) prior to fixing tiles. Direct tiling on flat surface can be conducted using **weberset superflex 21** + **webermix admix 1** etc. Prime surface of AAC Blocks with **weberprim AAC Primer**.
- **Cement-Sand Render & Screed** - Allow new Cement-Sand Render or Screed to cure for 2 - 3 weeks, before fixing tiles. The rendering or screeding mortar mix should ideally be 1 part cement 3 - 4 parts of sand by volume.
- **Existing Tiles / Marbles / Terrazzo** - Existing surface must be dry, sound & free of contaminants. Hollow sections should be removed and made good before direct fixing with **weberset superflex 21** + **webermix admix 1**
- **Existing Vinyl Tiles** - Existing vinyl tile surface must be dry, sound & free of contaminants. Prime surface with mix SBR, before direct fixing with **weberset SBR**, before direct fixing with **weberset superflex 21** + **weber admix 1**.
- **Building Boards** - Building board such as plywood, cement-fibre board, chipboard etc. must be adequately braced to provide a sound / rigid substrate. Prime surface with **webermix SBR**, before direct fixing with **weberset superflex 21** + **webermix admix 1**.
- **Timber Floors** - It must be strong, rigid & strengthened by overlaying it with a 12 mm thick marine plywood, screw fixed at 300 mm centers to the joists. Installation system for tiles, similar to "Building Boards".

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INSTALLATION PROCEDURE



Substrate Preparation

Substrate must be dry, sound, flat / true & free of contaminants eg. dust, grease, laitance, mould releaser oil etc.

Ceramic Tiles are to be fix dry. Do not soak in water.



Mixing

Mix **weber set superflex 21** with water / Latex Admixture as per the recommended mix ratio. Mechanical mixing recommended.



Application

Spread adhesive to the substrate at trowel bed thickness 6 - 12 mm (may vary depending on tile size & thickness) with suitable notched trowel. Spread adhesive (Slurry Consistency) to the semi-dry substrate at solid

bed thickness of 3 - 6 mm (may vary depending on tiles size & thickness). Spread no more than 1 m² at a time to avoid Skin-Over. Open Time of spread adhesive is approx.. 30 minutes at 25°C. Promptly fix tiles onto adhesive bed, followed by slight twisting action to ensure good contact ie. Solid Bed Fixing. Lift tiles occasionally to check that adequate transfer and contact is achieved between the adhesive bed and the tile back. Touch adhesive bed periodically to check for Skin-Over. Where adhesive bed is no longer tacky / sticky, Skin-Over had occurred. Re-Trowel adhesive bed. Allocate joints of at least 2 - 3 mm wide between tiles. Remove surplus adhesive from tile surface & joints before it hardens. Allow to set for 24 hours before grouting commences. The adhesive should not be used in temperatures lower than 5°C or in damp condition.

Grouting

Grouting of tile joints should only commence at least 24 hours after completion of tiling or until adhesive had 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, where tiling is continuous across them.
- In large areas of floor tiling, at 3 - 4.5 m centers vertically & horizontally and at the floor perimeter. For wall tiling at storey heights, 3 - 4.5 m vertically & at internal vertical corners.
- Around fix structure ie. column or fix machinery etc.
- Where stresses are likely to be concentrated ie. changes in wall or floor alignment.

COVERAGE

May vary depending on the nature and flatness of surface

At 3 mm trowel bed thickness is approx. 3 kg / m²

At 6 mm trowel bed thickness is approx. 6 kg / m²

PACKING

Available in 25 kg bag.

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SHELF LIFE / STORAGE

At least 12 months; when stored in dry conditions of normal ambient temperature.

TECHNICAL SERVICES

For further details or recommendation please contact our Technical Advisory / Specification Center at 603-6038 9498 (KL) & 604-626 2830 (Penang)

PRECAUTION

Avoid inhaling dust. If material enter eyes, wash out immediately with Clean Water. May cause minor skin irritation; therefore use suitable gloves. Keep out of children reach.

Conditions Of Sales

Sold subject to Company's Condition of Sale, which is available upon request.

Note

All instruction and information are provided by us for the general guidance only and are believed to be accurate and complete. Users must exercise special care and caution depending on the conditions and particular purpose of usage and are responsible to ensure that they have consulted our latest literature. To the maximum extent allowed by law, Saint-Gobain Weber (M) Sdn Bhd, its representatives, agents or distributors shall be under no liability for any loss of profits and other economic or physical losses