

Characteristics:

- Commercial FS is a premium grade rapid setting, polymer modified, white cement based tile adhesive. Ideal for use in situations where the adhesive must dry quickly or when grouting must be completed shortly after fixing of tiles.
- Commercial FS is suitable for tiling in situations where residual moisture can cause affects like water staining, discolouration and efflorescence in some natural stone tiles*(A).
- Commercial FS is suitable for domestic and commercial applications
- Suitable for use over 24 hour green sand/cement screed
- Commercial FS is non-slump and is ideal for large format tiles.
- It is designed for bonding porcelain, ceramic, stone eg natural stones*, terrazzo and mosaic tiles.

Substrates:

- Commercial FS can be applied onto a variety of substrates like concrete, render, rendered brickwork; block work, Gyprock, and fibre cement surfaces.
- It can be used internally or externally on wall and floor surfaces.
- Commercial FS can be used for fixing both high and low porosity tiles.
- Commercial FS can be used for fixing tiles over most waterproofing membranes. However, it is advisable to contact the manufacturer prior to commencing.
- Commercial FS is not suitable in immersed situations like swimming pools, spas etc.
- Commercial FS can be used for fixing low to medium dimensionally sensitive tiles* stone that is classified as Class A.
- Not suitable for some moisture sensitive stone like green marble or some limestone that is classified as Classes B or C that are considered moisture sensitive and dimensionally unstable refer to below table.

Class	Deformation
Class A	<0.3mm
Class B	>0.3mm/<0.6mm
Class C	>0.6mm

Preparation:

- Ensure all concrete slabs are allowed to cure for at least 6 weeks and have a wood float finish.
- All rendered surfaces must be allowed to cure for at least 7 days prior to commencing tiling.
- The maximum variation in the plane of the concrete must not exceed 5mm in 3 meters for floors and 4mm in 2 meters for walls.
- Steel trowelled finished concrete surfaces must be mechanically abraded prior to commencing tiling.
- Fibre Cement sheet when used as a wall material must be a minimum of 6mm in thickness. For heavy duty commercial applications it should be a minimum of 9mm thick and all should be fixed in accordance with the manufacturer's instructions and the relevant standards.
- Commercial FS is not suitable for framed floor construction. F/C sheet flooring must be screeded with no less than 25mm of screed.
- Gypsum -plasterboard sheets when used as a wall substrate must be a minimum of 10mm thick, and installed in accordance with the manufacturer's instructions and the relevant standards.
- Ensure all surfaces are sound, dry and free from excessive

- **Fast setting adhesive**
- **Dry in 3 hrs**
- **Suitable for moisture sensitive tiles***
- **Non slump**
- **Commercial and domestic applications**
- * **Complies with:
AS ISO 13007.1-2013:
Class C2S1FTE**



movement, oil, dust, grease, wax, curing compounds, release agents, paints and any other loose contaminating materials.

- It is recommended that all surfaces must be primed with Universal Primer diluted 4 part clean water 1 part Universal Primer, especially for porous surfaces, to ensure a sound bond of the adhesive to the substrate.
- When applying the primer onto a floor surface it is recommended to firstly pour some primer in a section then spread the primer using a broom, brush or roller. Then continue this method of application until the entire area is primed. Note: This method of application ensures a thorough coat of the primer on the surface. Any excess Universal Primer that has not dried should be removed with a rag prior to tiling.
- Allow the primer to dry for approximately 30 - 40 minutes at 20°C prior to commencing tiling.

Expansion / Movement Joints:

- Expansion movement joints must be provided to allow for movement between adjacent building components.
- Over Existing Joints In the substrate.
- Where two different substrates meet. Eg: Timber and Concrete.
- Around fixed elements in the floor eg. Columns.
- At internal vertical corners.
- Around the perimeter of the floor.
- In internal floors where any dimension exceeds 9m or 6m if subjected to sunlight.
- In external floors where any dimension exceeds 4.5m
- On wall surfaces at storey heights horizontally and approximately 3m-4.5m apart vertically. Ideally they should be located over movement joints in the structural background and at structural background any structural material changes for example the horizontal joint at the bottom of floor slabs, vertical joints at internal vertical corners, and at junctions with columns.
- Movement joints should go right through the tile adhesive bed to the background and kept free from dirt and adhesive droppings. Movement joints must not be less than 6mm and not wider than 10mm. The movement joints must be filled with a flexible sealant like Silicone and installed as per AS3958:2007.

Application:

- All preparation and tiling should be carried out in accordance with AS3958.1:2007 - Guide to the Installation of Tiles.
- Once the surface has been appropriately prepared in accordance with RLA's Instructions then apply the adhesive onto the substrate using an appropriate notched trowel.
- For wall tiling use 6mm x 6mm square notched trowel for tiles up to 150mm x 150mm. For tiles larger than 150mm x 150mm use a 10mm x 10mm square notched trowel.
- For floor tiles use 10x10mm square notched trowel, for tiles up to 300x300mm.
- For 300x300mm or larger, use a 12x12mm square notched trowel.
- Commercial FS should be applied onto the substrate at a rate of 1 m² a time. Application rates greater than this can result in the adhesive skinning before the tiles are laid into it.
- Once the adhesive is applied onto the substrate ensure that it does not skin prior to bedding the tiles into it. Once the adhesive skins do not lay tiles into it. Remove it and apply fresh adhesive.
- When placing the tiles into the adhesive press them in by using a sliding action. Ensure no voids occur and full coverage of adhesive is under the tiles.
- For tiles larger than 300X330mm or tiles with lugs, grooves or uneven backing it is required to butter the back of the tile with adhesive in addition to trowelling the adhesive onto the substrate.
- The final bed thickness of the adhesive should be at least 2mm for wall tiling and 3mm for floor tiling.
- Once the tiling is completed do not disturb the tiled surface for at least 3 hours at 20°C.

Mixing:

- Mix 6 Litres of water with 20kg of Commercial FS, mix until a lump free creamy consistency is achieved
Note: (ensure powder is added to water)

Clean up:

- Excess adhesive from the face of the tiles can be cleaned up with damp cloth while the adhesive is still wet.
- Adhesive that has oozed out into the grout joint must be raked out with a knife / spatula etc.
- Tools and other equipment can be cleaned up using water while the adhesive is still wet.

Coverage:

- A 20kg of Commercial FS will cover approximately 6-7 m² using a 10mm notched trowel.

Grouting Application:

- Grouting application can commence 3 hours at 23°C after the completion of tiling.
- Grouting can be done using RLA's Grouts / Epoxy grouts must be used for moisture sensitive tiles.
- Clean up can be done using a damp sponge. Ensure you use a clean sponge every time.
- Grout will fully dry in 24 hours at 20°C, after which time the area can be put into service.

Packaging / Shelf Life:

- Commercial FS is available in 20kg bags.
- A bag of Commercial FS, when stored in a cool, dry environment, and is stored above ground level, will have a shelf life of approximately 12 months

Handy Tips:

- Do not apply Commercial FS in temperatures above 40°C and below 5°C.
- Protect tiling from rain and inclement weather until 24 hours after grouting is complete.
- Commercial FS cannot be used for fixing tiles onto framed floors.
- For heavy or commercial use, use Commercial FS with Uniflex Additive.
- For applications / situations not mentioned in these instructions please contact your nearest RLA office.
- Commercial FS being cement based is alkaline in nature, and therefore may cause dermatitis. It is recommended that applicators wear PVC gloves or similar and safety goggles.

Safety Directions:

Hazardous - Contains cement silica.
Wear gloves and mask when handling.
Wash hands thoroughly after use.
For a full MSDS on this product please contact your nearest RLA office.

Manual Handling:

Manual handling of this bag without due care and attention may result in personal injury.

Disclaimer: T(A) Commercial FS is Suitable for mildly moisture sensitive stone that may stain, discolour or show signs of efflorescence with normal cement based adhesives. *Suitable for installing moisture sensitive stone and tiles that are classified as Class A where tile/stone deformation is less than or equal to 3mm. Not suitable for tiles/stone that classified Class B and C (moisture sensitive and dimensionally unstable). As per EN14617.2 (refer to above table)

Technical Data

Appearance	White Powder	Pot Life	30 minutes @ 20°C
Bulk Density	Approx 1.18 +/- 0.05	Ready for grouting	3 hours @ 23°C
Open Time	Approx 25 minutes @ 20°C	Light foot traffic	3 hours
Adjustment Time	Approx 20 minutes @ 20°C		



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