

## Tiling Specification

## Fixing Thin and Large Format Sheet Porcelain Tiles

### Scope

Use this guide when installing large format sheet tiles:

- Thin Sheet tiles 3mm – 7mm thick, up to 3m in length
- Domestic and light commercial duty installations not subject to heavy loadings

When laying large format sheet tiles, preparation is paramount to the successful installation. The substrate must be perfectly level.

Installation of these tiles is specific, with particular importance placed on surface preparation and placement of control joints. The tiles need to be handled like glazing and require suction cup fitted frames, such as those used by glaziers. The tiles are very dense, hard and relatively brittle with tile dimension ranging from 1.2m to 3m and a thickness ranging between 3mm to 4.5mm.

### Product

HTS White is a cement-based, polymer-fortified wall and floor tile adhesive. HTS White has an extremely High Tensile Strength and designed for fixing premium stone, marble, porcelain and larger format tiles.

HTS White is non-slump and is non-shrink for a level finish. It is white in colour for lighter coloured stone. Westbuild PRO™ Flexible Additive and Fortifier should also be used as a water replacement to further improve bond strength and impart flexibility.



### Preparation

Prior to tiling, the surface must be correctly prepared, flat and true. Fill any imperfections with Westbuild Fairing Mortar or Westbuild ULW Mortar. Any imperfections/high points need to be addressed and the surface will need to be dead-level.

### Application

For floors and walls, an 8mm notched trowel is recommended. Larger format tiles will require a 10mm notch trowel. This is a general guide, and the type of tiles and substrate will determine the size notch. Do not apply HTS at a bed thickness greater than 10mm.

Tiles should be fixed in accordance with AS 3958.

Make sure the newly tiled surface is not disturbed for a minimum of 24 hours.

#### *Advice:*

- Ensure accurate positioning before tile placement. Once placed on a wet adhesive, suction can be incredibly strong, making it almost impossible to lift and reposition the tile.
- Ensure tiles have FULL adhesive contact coverage, with no voids beneath to tile.
- Tiles with ribbed or keyed back profiles should be back buttered to ensure complete coverage.
- Do not spread more than 2 meters of adhesive at a time to ensure the adhesive does not skin prior to bedding the tiles.



*Delayed Drying Times:*

- The open time of HTS is 30 minutes. HTS White mixed with Westbuild PRO™ Flexible Additive and Fortifier can be subject to delayed drying times, as with tiling over a non-porous substrate. This system is suitable for normal type porcelain tiles, but if a mesh backing is present, a fast setting mortar is more suitable. Delayed drying may also have an impact on the development of alkaline attack if a mesh is present. An extended presence of moisture can lead to the leaching of alkaline materials from the cement in the adhesive.

**Mechanical and Physical Properties**

HTS White – Classification AS4992	
Adhesive Type	<b>C2ET, C2S1/S2ET when mixed with Westbuild PRO™ Flexible Additive and Fortifier.</b>
Appearance	
Form and Colour	PURE WHITE Powder
Density	1420kgs/m <sup>3</sup>
Properties	
Water Ratio	20kgs to 4.8 Litres of clean fresh water
Coverage (smooth flat concrete floor)	5.0m <sup>2</sup> per bag (10mm notched trowel)
	8.0m <sup>2</sup> per bag (6mm notched trowel)
Adjustability Time	20 mins
Open Time	30 mins
Pot Life	1.5 hours
Set Time	Min 12 hours

The above information is a general specification only and does not make provision for specific site and project requirements. Please consult with the Technical Data Sheet or directly with Westbuild for a unique and tailored specification for your project.