

Tiling Specification

Tiling Over Concrete and Screeds Subject to High Movement/Temperature Fluctuations

Scope

Depending on building materials and types of construction, thermal and structural movement may be expected. In areas where high structural movement is anticipated, provision to increase adhesion and ensure flexibility within tile adhesives will limit ongoing maintenance and limit any issues with tiles de-bonding. In such circumstances, Westbuild Flexbond is a suitable adhesive for:

- Multiple surfaces
- Surfaces with underfloor heating

Product

Flexbond High Performance - AS4992.2 Classification C2S1TE



Westbuild Flexbond, High Performance tile adhesive is a white, C2S1TE high performance cement-based tile adhesive. It has a high polymer loading and is suitable for most types of tiles over a large range of substrates, including existing tiles.

Flexbond High Performance is suitable where heavy pedestrian traffic is likely and designed to absorb movement associated with early age concrete, vibrations and concrete shrinkage.

Alternative Products: As an alternative to Flexbond, you could mix *Westbuild HTS White* with *Westbuild PRO™ Flexible Additive & Fortifier* to meet AS4992.2 Classification C2S1E. The mix is suitable for tiling over areas where high structural movement is anticipated.

Attention

When commissioning a floor heating system, ensure the adhesive has cured a minimum of 14 days and increase the heating system by 2 degrees maximum, per day until the desired temperature is reached. Do not heat the system above 42 degrees Celsius. Failure to heat incrementally may result in problems with the adhesive softening and/or excessive movement and potential de-bonding of any topping or levelling systems.

Preparation

Self Levelling: All heating cables should be adequately installed as per manufacturer's recommendations. Prime the Surface with Westbuild PRO™ General Purpose Primer. Fix the heating coils to the concrete and prevent movement by applying a solid screed of Flexbond or HTS White, ensuring full contact is made to the substrate. Level the floor with Westbuild Level It, ensuring the compound is at least 3mm above the top of the cables.

Screed: All heating cables should be adequately installed as per manufacturer's recommendations. Fix the heating coils to the concrete and prevent movement by applying a solid screed of Flexbond or HTS White, ensuring full contact is made to the substrate. Level the floor with Westbuild Easy Screed with at least a 25% Westbuild PRO™ Flexible Additive & Fortifier and 75% water. Ensure the screed is at least 3mm above the top of the cables.

Priming Coat: Ensure correct dilution of primer is used, apply evenly and consistently and let dry for 15 – 30 minutes. Over-coating with cementitious compounds will achieve maximum adhesion when the surface is slight tacky.



Application

Ensure the back of the tile is free from dust. Use a 10 x 10 x 10mm notched trowel for floors and an 8 x 8 x 8mm notched trowel for walls (a 10 x 10 x 10mm trowel is recommended for larger wall tiles). Do not spread more than 1 metre of adhesive at a time to ensure the adhesive does not skin prior to bedding the tiles. Press and slide the tile at right angles ensuring the tiles are well bedded and that there are no voids under the tiles. Make sure the newly tiled surface is not disturbed for a minimum of 8 hours.

Mechanical and Physical Properties

Westbuild Flexbond High Performance – Classification AS4992	
Adhesive Type	C2S1TE
Appearance	
Form and Colour	PURE WHITE Powder
Density	1500kgs/m ³
Properties	
Water Ratio	20kgs to 4.8/5 Litres of clean fresh water/gauging water
Coverage (smooth flat surface)	6.5m ² per bag (10mm notched trowel)
	8.0m ² per bag (6mm notched trowel)
Adjustability Time	30 mins
Pot Life	2 hours
Set Time	30 – 45mins