Westbuild
INNOVATIVE BUILDING PRODUCTS

Tiling Specification

Impart Flexibility & Improve Compressive Strength to Cement / Sand Screed

Scope

The successful finish of a tiled area depends on the initial surface preparation; i.e. quality of the substrate and screed. Typical sand and cement screeds do not possess adequate flexural and compressive strengths for today's changing building materials and techniques. Westbuild PRO™ Flexible Additive Fortifier & Primer is a high performance SBR* additive to assist in modifying the way the bond is formed between sand and cement at granular level. This modified bond greatly increases the flexibility and reduces the water content creating a higher compressive strength. Use this guide to use Westbuild PRO™ Flexible Additive Fortifier & Primer:

- Where installation is required on substrates subject to movement
- For replacement of previously failed screed

By using Westbuild PRO™ Flexible Additive Fortifier & Primer with either a factory-prepared screed (Westbuild Easy Screed) or a site-prepared screed, the water is replaced (and controlled better) with an SBR* admixture emulsion. The addition of Westbuild PRO™ admixture will greatly enhance final performance characteristics.

Product

Westbuild PRO™ Flexible Additive Fortifier & Primer

Westbuild PRO™ Flexible Additive Fortifier & Primer is a unique, multi-purpose liquid compatible with general cement-based tile adhesives, mortars, renders and screeds. It can also be used with neat cement as a bonding agent to assist in adhesion of cement screeds and mortars to the subfloor.

Westbuild PRO™ Flexible Additive Fortifier & Primer will greatly improve the technical properties and performance of cement-based systems and is suitable for areas subject to water, harsh climatic conditions and fully immersed areas. It will increase tensile and compressive strength, promote improved adhesion to the subfloor whilst improving workability and water resistance.

Preparation

A 'gauging water' should be prepared prior to dry mixing the sand and cement. Always add the Westbuild PRO™ Flexible Additive Fortifier & Primer to gauging water in preparation for the project. Do not add the water and Flexible Additive Fortifier & Primer separately. For optimal results and use clean, potable water in a 2:1 mix – i.e. mix 2 parts water to 1part Flexible Additive Fortifier & Primer. Weaker dilutions will still enhance the overall properties of the mix, but in a reduced manner.

Mixing & Application

Add sufficient gauging water to the dry mix to achieve the desired working consistency.

Westbuild PRO™ Flexible Additive Fortifier & Primer can be used in any cementitious compound to promote increased adhesion and cohesive characteristics. Refer to Fig 1, *'Dilution Guide'* (next page), to assist in dilution ratios.

To use undiluted as a primer: apply evenly and consistently. Over-coating with cementitious compounds whilst the primer is still tacky will achieve maximum adhesion.

To use as a fortifier for cement / sand screed: ensure correct dilution is used, mix thoroughly and consistently. If the mix begins to dry out DO NOT add any more water, discard and re-mix fresh product.

Technical Specification

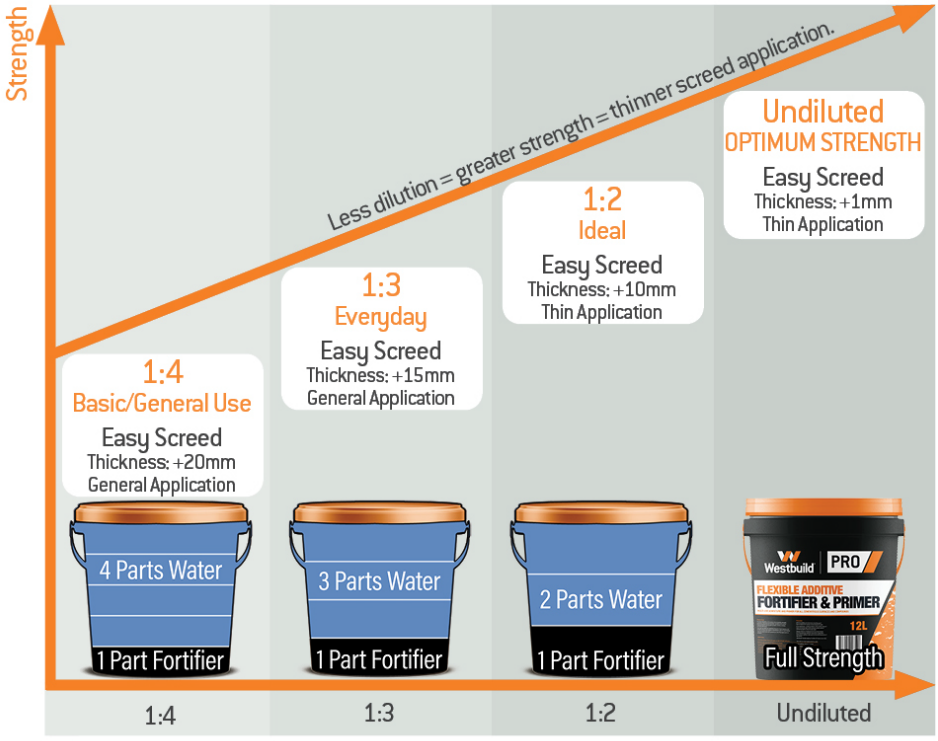
Technical Specification

Westbuild PRO™ Flexible Additive Fortifier & Primer with Easy Screed - Dilution Guide

Step 1
Mix gauging liquid.

Step 2
Use gauging liquid at a rate of 1-1.2L per 20kg Easy Screed.

Step 3
Apply Easy Screed, ensuring a bonding agent is used.



Handy Tip

Ensure a bonding agent is used to adhere Easy Screed to the substrate.

Westbuild recommends a ratio of 3:1 (3 parts fortifier to 1 part GP Cement).

This should then be applied to the substrate, and whilst wet the Easy Screed is applied over the top.

Fig 1. – Dilution Guide

Mechanical and Physical Properties

Westbuild PRO™ Flexible Additive Fortifier & Primer		
Form – Liquid	Colour	Milky White
	Specific Gravity	1kg/litre
Dilution Rates	Minimum	**Neat**, without dilution.
	Maximum	**1:6** (1 Part Flexible Additive Fortifier & Primer *to* 6 Parts Water)
Typical Reduction Drying Times	**Mix ratio 1:2** (1 Part Flexible Additive Fortifier & Primer *to* 2 Parts Water)	15-25% (site dependent)
Typical Increase in Strength	**Mix ratio 1:1** (1 Part Flexible Additive Fortifier & Primer *to* 2 Parts Water)	10-50% (mix dependent)

** SBR = Styrene/Butadiene/Rubber*

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.