



1. Manufacturer

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3. Product Description

WCB (White Cement Base) is a white cement designed as a base or skim coat for Shikkui system, and is used to prepare substrate surfaces for a finish coat. The product consists of calcium carbonate, Portland cement, silica and a water-soluble polymer.

The extra fine composition allows for spraying machine, trowel or roller applications. In addition, the polymer containing in WCB improves the material elasticity, which reduces the drying shrinkage cracking. The material mixture itself has been carefully engineered and balanced to make the product crack-resistant.

Feature overview:

- Sprayer, roller or trowel application
- Excellent adhesion to a variety of substrates
- Superior flexural strength
- Excellent workability
- Non-toxic
- Interior and exterior applications

3. Uses

WCB is applied on exterior and interior surfaces of a wide range of substrates, including masonry, ICF panels, bricks, wood, concrete-based surfaces, GRG, etc. It creates a strong bond between a substrate, treated with a sealer for preventing water absorption, and one of the Shikkui finish coats, ensuring the long-lasting effect of the Shikkui system.

WCB is applied on flat substrate surfaces as a thin coat, with the recommended thickness of 0.4mm and the maximum thickness of 1mm. If a thicker application layer is specified to flatten relief substrates, sand is added to WCB making it a polymer cement mortar. The recommended sand size should not exceed ½ of the specified application thickness.

4. Packaging and Coverage

WCB is packed in 20kg and 4kg sacks as a dry premix.

Package	Application Thickness	Coverage		Drying Time
		m ²	sq ft	
44lb (20kg)	0.4mm	40	430	3-4 hours
	1.0mm	16	172	24 hours
8.8lb (4kg)	0.4mm	8	86	3-4 hours
	1.0mm	3.2	34	24 hours

5. Mixing

Always wear a dusk mask or respirator when mixing WCB. Please refer to MSDS for details.

Mixing water instructions

- Mix the material, and about 90% of the below recommended amount of water at once. Use a high-speed mixer.
- Add the remaining 10% of water to reach a softer consistency suitable for application.
- For spraying machine application, depending on a spraying machine type, additional water may be needed.

Recommended water amount

Package	Application	
	Trowel	Sprayer / Roller
44lb (20kg)	2.35 gal (9L)	2.65 gal (10L)
8.8lb (4kg)	0.47 gal (1.8L)	0.53 gal (2L)

6. Installation

See Application Scheme for details on application steps.

General guidelines for trowel application:

- Apply Shikkui Sealer onto stable, clean and dry substrate surface to ensure proper water absorption control. Let it dry well.
- If necessary, perform a standard joint treatment using WCB.
- Apply WCB at a very thin layer, working the material in all directions to achieve a strong bond. Let it dry for 5 min. Apply the second layer, so that the total thickness would be about 0.4mm, also working the material in all directions. Wait for 5-15 min, then flatten again. For a flat/smooth finish effect, the surface of WCB should be as flat as possible. Let it dry very well. This may take at least 3-4 hours depending upon site temperature and humidity.
- Apply the Shikkui finish coat.

Notes:

(a) The actual application depends on application method, optional aggregates and a desired surface texture/effect. The site temperature and humidity may influence the drying time. Please consult with the manufacturer or distributors about application for your particular project.

(b) WCB is easy to apply, allowing fast application, thin application layers and low material consumption. However, the specific techniques and timing are critical; therefore for applicators we highly recommend attending a Shikkui workshop.

(c) Use adequate tools to ensure high performance and workability.

(d) Apply the material at the temperature range 45 - 95F (5 - 35°C).

7. Clean Up

Freshly mixed WCB cleans up with water. If the material hardens, it can only be removed by mechanical abrasion or scraping.

8. Maintenance

The product would require no additional maintenance if installed following proper and accepted procedures.

9. Warranty

WCB is a part of the Shikkui system, which is supported by a limited 10 year manufacturer warranty. The warranty covers the general material properties and the bond between the components of the Shikkui system. The warranty covers neither issues due to structural specifics of the substrate/construction nor defects due to improper installation. Please refer to the Shikkui System Warranty for details.

The manufacturer makes no guarantee or warranty, expressed or implied for WCB being used outside the Shikkui system.

10. Storage

Material in powder form: 2-3 years if stored under dry and cool conditions (5 – 25°C) in the original package.