



W1 CEMENT STRENGTHENER



WATERPROOFING THIN SET TILE BONDING, TILE BONDING, ANTI-CHLORIDE, PLASTICISER, INJECTION POLYMER AND SEALER.

FEATURES

Cement added with **W 1** will have

- Improved bonding strength by 2 to 3 times to 30.57 kg/cm². Especially good for bonding homogeneous tiles, granites and marble tiles, and to prevent staining.
- Increased flexural and compressive strength by 40% to 100%. Compressive strength to 56.00 N/mm². Flexural strength to 10.00 N/mm². (ASTM C 39).
- Quicken cement setting time. Reduced surface cracking and dusting, forming a very tight seal. Good for wall plaster, wet area and swimming pool waterproofing.
- 10 to 20 times more resistant to oil, salt water, chloride, acid and vapour penetration. . A feature particularly important in steel reinforced concrete structure.
- Improved plasticity and flow (ASTM C 124-71), easier to work with, reduces porosity.
- **W1 CEMENT STRENGTHENER** is deemed to be suitable for use in contact with water intended for human consumption tested against SS375 : 2001.

APPLICATION METHOD

Based on Cement: Sand ratio of 1 : 3.

- The amount of water needed is 24 % by weight of cement.
- This can be replaced totally with 24 % or lesser of **W1** for optimum performance.

Tile Bonding Aid, Grouting Vapour & Waterproofing:

- Dilute **W 1 + Water = 1 + 1 by Volume**, before adding into the Cement.
- It will waterproof and bond tiles very strongly onto glass, glazed tile, steel and wood. Fine silica sand of 0.5 mm diameter can be added for grouting the tile joints.

Tile-Over-Tile Bonding:

- Dilute **W 1 + Water = 1 + 1 by Volume**, before adding into the Cement.
- Thinly brush a coat the old tile surface with **W 1 + Cement** to about 1.0-mm.
- While it is still wet, bond on the tile.



WARRIOR PTE LTD

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Wall Plaster & Cement Mortar for diverse range of Sealing, Repairs & Waterproofing:

- Wall plastering, spalling concrete, corrosion preventing prime coat on reinforced steel bar, mending worn out floor and holes, patching works around piping, re-pointing of brick works, tile joints, sealing of old concrete, Asbestos sheet, fish tank & swimming pool.

Coating or Injection into Floor Screed, Wall & Absorbent Surface to Prevent Seepage & Waterproof:

- Use **W1** or Mix **W1 + W5 MULTI-BOND**, dilute as needed, to coat, or inject into the brick or cement, to seal up porosity. Injection pressure is 100 psi. Normal drying time is 10 days at 30°C.

Type 1 Bonding:

1. Brush W1 polymer directly onto the cement surface, while it is still wet (10 minute drying time)
Apply the mortar directly onto it.

Type 2 Bonding:

1. **Priming Slurry** **W1 + Cement = 1 + 2**
Brush the slurry onto the cement surface, while it is still wet (10 minute drying time)
Apply the mortar directly onto it.
2. **Type 2** method save on the W1 consumption, bonding strength is also higher.



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TECHNICAL DATA

TÜV SÜD PSB Test Report No 7191031830 dated 19 April 2012.

Specific Gravity:	1.01
pH:	9.5 Alkaline
Colour:	Milky Solution
Shelf Life:	12 months
Slant Shear Bond Strength:	Type 1 9.7 N/mm²
	Type 2 10.5 N/mm²

Item No	Test	Result
1	Formaldehyde Content	Not Detected
2	Heavy Metals, Mercury, lead Cadmium, Chromium	Not Detected
3	Flash point @61°C	No Flash
4	VOC Content	4.5g /L
5	Halogenated solvents	Not Detected
6	Epichlorohydrin	Not Detected
7	Aromatic solvents	Not Detected
8	N-methyl pyrrolidone	Not Detected
9	Alkyl Phenol Ethoxylates	Not Detected

Packing

1 kg-bottle, 4 kg-carboy, 5 kg-carboy, 20 kg-jerry can, 200 kg-drum.

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