



# W1 CEMENT STRENGTHENER



WATERPROOFING THIN SET TILE BONDING, TILE BONDING, NEW TO OLD CONCRETE BONDING, ANTI-CHLORIDE, PLASTICISER, INJECTION POLYMER AND SEALER.

## FEATURES

Cement added with **W 1** will have

1. Improved bonding strength by 2 to 3 times to 30.57 kg/cm<sup>2</sup>. Especially good for bonding Metal, glass, homogeneous tiles, granites and marble tiles and to prevent staining.
2. Increase flexural and compressive strength by 40% to 100%. Compressive strength to 56.00 N/mm<sup>2</sup>. Flexural strength to 10.00 N/mm<sup>2</sup>. (ASTM C 39).
3. Quicken cement setting time. Reduced surface cracking and dusting, forming a very tight seal. Good for wall plaster, wet area and swimming pool waterproofing.
4. 10 to 20 times more resistant to oil, salt water, chloride, acid and vapour penetration. A feature particularly important in steel reinforced concrete structure.
5. Improved plasticity and flow (ASTM C 124-71), easier to work with, reduces porosity.
6. **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**.

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

### A. Tile Bonding Aid, Grouting Vapour & Waterproofing:

1. Dilute **W 1 + Water = 1 + 1** by Volume, before adding into the Cement.
2. 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.

### B. Tile-Over-Tile Bonding:

1. Dilute **W 1 + Water = 1 + 1** by Volume, before adding into the **Tile Bond Cement** or **Cement**.
2. Hard brushing this slurry onto the existing tile surface. Thickness about 1.5 mm. While it is still wet, bond on the tile.

### Consumption:

For Floor Screed:

W 1 + Water = 1 + 1 by Volume  
W1 usage = 0.4 kg / m<sup>2</sup> / 10 mm thick



Tile Bonding & Waterproofing at Camel Nut Factory

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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 60 to 100 psi. Normal drying time is 10 days at 30°C.

## Type 2 Bonding Method:

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** save on the **W1** consumption, bonding strength is also higher.

## Old Concrete Bonding:

1. **Priming Slurry**                      **W1 + Water = 1 + 1 or 2**

*Before adding into **Portland Cement** or **Tile Bond Cement** at 30% level*

Brush the slurry onto the Old Concrete surface, while it is still wet ( 20 minute Open time)

Pour the New Concrete mix directly onto it.



Re-surfacing the drain



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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:	<b>Type 1</b> <b>9.7 N/mm<sup>2</sup></b>
	<b>Type 2</b> <b>10.5 N/mm<sup>2</sup></b>

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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