



W1T CEMENT MODIFIER

REDUCE SHRINKAGE CRACKS, DE-BONDING AND HOLLOWNESS, SMOOTHS PLASTER SURFACE FINISHES, BONDING OF WALL PLASTER, TILE GROUTING AND IMPROVES ABRASION RESISTANCE AND LEVELLING



USES

TILE GROUTING

Mix into cement grouting powder for easy grouting without staining the tiles.

PLASTERING

Good water retention; reduces plastering cracks; improves adhesion to existing concrete surface

GENERAL TILE BONDING

Bonds plasterboard and ceramic tile onto cement floor. (Use W1 for tile-over-tile and homogeneous tile bonding.)

CEMENT SLURRY

Self-leveling and bonding of new and old concrete and screed

REPAIR MORTAR

Surface finishing and patching of holes

ABRASION RESISTANCE

Surface finishing and patching of holes

FEATURES

W1T is a cement additive to improve the adhesive and compressive strength of the cement.

W1T added into the Cement Mortar will:

- modify the property of cement and improve bonding and surface finishes of both external and internal wall's render and plaster.
- drastically reduce hairline cracks, de-bonding, bulging, or hollowness.
- improve cement's workability, bonding strength and water retention.
- Cement setting time retarded by 12 hours.
- Do not step onto the laid tile surface until it hardens.



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APPLICATION METHOD

MASONRY BLOCK WALL PLASTERING

- In general, no chipping to the cement surface is needed.
- Holes or voids should be filled and leveled with **W1T + Cement and Sand**.

Step 1: PRIME COAT SLURRY (Key Coat)

1. Dilute W1 + Water = 1 + 1.
2. Before adding into cement, mix into a brushable slurry.
3. Apply with a hard nylon brush to the surface without misses.



Step 2: WALL PLASTERING

1. Trowel immediately onto the surface after 2 - 3 m² is applied with prime coat slurry, or apply the plaster at the same time. Control the thickness at 4 - 8 mm.
2. Mix Ratio: (Cement + Sand) + W1T + Water
(1 + 2 to 3) + 0.24 + + / - as needed
3. The total thickness including the render should not be more than 2 cm.
4. Thicknesses of more than 2 cm need to be troweled a 2nd time.
5. Trowel with a wood trowel for the first layer of plaster.
6. 2nd plaster layer: a metal or wood trowel can be used as per the surface finish requirement.

Step 3: FLOOR SCREEDING

1. After prime coat, pour the mortar with W1T added onto the floor.
2. Spread the mortar, followed by rolling it with a spike roller. It will level to a very smooth finish without the need for troweling.

For surface gradients of **LESS THAN 3 mm**, use 3 mm-sized sand.

Mix Ratio: Cement + Fine Sand + W1T
1 + 3 + 0.24 to 0.35

For surface gradients of **MORE THAN 4 mm**, use 3 to 5 mm sand + aggregate.

Mix Ratio: (Cement + Coarse Sand) + W1T
1 + 1 + 0.25 – 0.35



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TECHNICAL DATA

- **Physical Form:** White Emulsion
- **Viscosity** (B - 4 cup, 25°C): 120 ± 5 seconds.
- **Specific Gravity:** 1.02 at 25°C
- **Hardness:** 6.5 on Moh's Scale
- **Abrasion Test 8:** 20% loss in weight

Note 1 kgf /cm² = 9.80665 x 10⁴ pa

	Brickwork Mortar	Plastering mortar	Ceramic tile mortar	
			Paste	Slurry
Compression Strength	6 – 10 kgf / cm ² (6 – 10) x 10 ⁵ Pa	5 kgf / cm ² > 50 x 10 ⁵ Pa		
Tensile Shear Strength	0.95 – 1.06 kgf / cm ² (0.92 – 1.06) x 10 ⁵ Pa	> 2 kgf / cm ² > 2 x 10 ⁵ Pa *	> 2 kgf / cm ² > 2 x 10 ⁵ Pa	> 15 kgf / cm ² > 15x10 ⁵ Pa
Freeze thaw 25 times Compression Strength		> 2 kgf / cm ² > 2 x 10 ⁵ Pa *	16 kgf / cm ² 16 x 10 ⁵ Pa	10 kgf / cm ² 10 x 10 ⁵ Pa

PACKING

5 litre 20 litre

Disclaimer:

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