



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

- FOR TILE GROUTING**
Mix into cement grouting powder for **easy grouting** without staining the tiles.
- FOR 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

A: MASONRY BLOCK WALL'S PLASTERING:

1. In general, no chipping to the cement surface is needed.
2. Holes or voids should be filled and leveled with

W1-T + Cement & Sand

A-1: PRIME COAT SLURRY (Key Coat)

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



A-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 (3/4")**.
4. Thicknesses of more than **20 mm (3/4")** 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.

A-3: FLOOR SCREEDING

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

1: For Surface Gradients of LESS THAN 3mm, use 3 mm-sized sand.

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

2: For Surface Gradients of MORE THAN 4mm, use 3 to 5mm sand + aggregate.

Mix Ratio **(Cement + Coarse Sand) + W1-T**
 1 + 1 + 0.25 – 0.35

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TECHNICAL DATA

Physical Form	White Emulsion
Viscosity	(B - 4 cup, 25°C) is 120 ± 5 seconds.
Specific Gravity	1.02 at 25°C
Hardness	6.5 Moh's Scale
Abrasion Test 8	20% loss in weight
Note	1 kgf /cm ² = 9.80665 x 10 ⁴ 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 carboy, 20-litre jerry can, 200-litre drum

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