

# CEMMIX

## BONDING ADMIXTURE

**CEMMIX** is a liquid latex rubber admixture that is designed as an integral adhesive for mortars and concrete to improve water and chemical resistance.

### RECOMMENDED USES

- Tile grouts, toppings, plaster and bonding slurries.
- Grout joints, thick mortar beds for tiles, bricks, stone, ceramics, and marble.
- General reconstruction work, polymer concrete overlays for highways and bridges.
- Patching and repair of precast elements and concrete pipe.

### ADVANTAGES

- Increases the bond strength of normal portland cement mortars.
- Reduce cracking through increased mortar flexibility.
- Increases wear resistance against high frequency traffic.
- Increases mechanical strength.
- Seals voids in grout joints to resist staining.
- Locks in and preserves color pigments from bleaching, fading, or washing out.
- Physical and thermal shock resistant mixes.
- Non-flammable / non-toxic.
- Chemical and water resistant.

### PACKAGING

20 Liter Pails and 210 liter drums

### SURFACE PREPARATION

Surface shall be cleaned and scrubbed with water using stiff-bristled nylon brush to remove laitance, dust, dirt, grease, wax and concrete sealers. Surface should be damp with no excess, free standing water.

**Mixing :** **CEMMIX** liquid is directly added to a previously prepared mixture of cement/sand or cement/sand/gravel and mixed either by hand or conventional mixer of the rotating drum type. Keep mortar or concrete as stiff as possible for

the intended use - over mixing should be avoided and may entrap air. Total mixing time for a four (4) cubic feet batch should not exceed five (5) minutes from the time liquid is added to the solid material.

**Limitation:** Optimum working temperature is 25- 27°C since cold weather retards mortar / concrete and hot weather causes premature drying and loss of workability. Placing and finishing should be done as quickly as possible preferably within thirty (30) minutes. In case of workability loss, mixture can be re-wetted by adding more **CEMMIX**. Do not add water to **CEMMIX** or mortar mixes.

**Application :** Prime the prepared surface by applying a thin cement slurry mix with **CEMMIX** using a stiff nylon bristled brush. Apply mortar or concrete and level immediately. Do not hard trowel or over finish. Use a float or light broom for a final finish.

**Curing :** **CEMMIX** is an air-curing system. However, when areas are exposed to sunlight, rapid air movement, or very warm temperature, cover immediately with wet burlap after finishing and maintain this protection for at least 24 hours. For interior or protected exterior work, simple air cure is adequate.

### PERFORMANCE SPECIFICATION

**CEMMIX** conforms with the requirements of American National Standards Institute (ANSI) A 118.4

**CEMMIX** is classified by the American Concrete Institute as an non-reemulsifiable bonding admixture.

**RECOMMENDED PROPORTION AND COVERAGE RATES**

MIX TYPE	CEMENT	SAND	10mm AGGREGATE	CEMMIX LTRS	APPROXIMATE COVERAGE AT VARIOUS THICKNESS, M <sup>2</sup>				
					1mm	5mm	10mm	20mm	50mm
Slurry	50 kg	50 kg		20-25	70				
Mortar (1:2)	50 kg	100 kg		20-25		18	9	4.5	
Mortar (1:3)	50 kg	150 kg		20-25		20	10	5	
Concrete (1:2:3)	50 kg	100 kg	150 kg	20-25					4

(NOTE: THE ABOVE PROPORTION ARE BASED ON LABORATORY TESTS AND MAY HAVE TO BE ADJUSTED DEPENDING ON ACTUAL CONDITIONS IN THE FIELD.)

**QUALITY STATEMENT**

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products, CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.