

Concrete  
Additives**C-LATEX**  
Multi-Purpose Bonding Agent**General Properties:**

- **C-LATEX** is a bonding agent formulated from modified synthetic resin used with cement & cement mortars.
- Minimizes shrinkage, reduces permeability.
- Improves abrasion resistance, increases mechanical strength.
- Excellent adhesion, does not cause corrosion to reinforcement, non flammable.

**Uses:**

- Patching for repairing & leveling mortars.
- Bonding agent for render to fair face concrete and cement mortars.
- Bonding new to old concrete.
- Increases workability and retardation of setting for Gypsum.
- Applying thin, workable, durable and free of cracks screeds that has high bond strength.

**Mixing Ratio:**▪ **As bonding agent between old to new concrete:**

1. Ratio : 1 **C-LATEX** : 2 water Filling materials :- Cement.
2. Mix the diluted **C-LATEX** with the cement to get the required slurry that is brushed on old concrete just before casting the new concrete Consumption : 150 gm/m<sup>2</sup>.

▪ **As bonding agent for spray mortars to fair face concrete:**

1. Ratio : 1 **C-LATEX** : 3 water Filling material : 1Cement : 3coarse sand by volume
2. Mix together and spray over fair face concrete. Consumption : 160 gm/m<sup>2</sup> for 2mm coat thickness

▪ **As an additive to mortars to improve qualities:**

1. Ratio : 1 **C-LATEX** : 6 water Filling material : 1 Cement : 5 sand by volume
2. Mix together to the required consistency. Consumption : 400 gm/m<sup>2</sup> / 2 cm coat thickness

▪ **For screed up to 50 mm:**

1. Ratio : 1 **C-LATEX** : 6 water Filling material :- 1Cement : 5 sand up to 4mm size by volume
  2. Mix together to the required consistency. Consumption : 200 gm/m<sup>2</sup> / 1 cm coat thickness
- Note:** **C-LATEX** should never be used solo, but is always mixed with cement.

**Technical Data:****Pulloff test (Bond strength)** : ASTM D 4541-95

Four samples were applied with four different ratios of components:  
Cement, water and **C-LATEX** with thickness 1-2 mm of the slurries.  
Concrete substrate having strength 300 kg/cm<sup>2</sup>.  
Test applied after 7 days.

**Bond to cement substrate as in table below:**

	Cement	Water	C-Latex	Pulloff strength test
1	20	20	10	1.6 N/mm <sup>2</sup> Failure happened to concrete surface
2	28	30	10	1.3 N/mm <sup>2</sup> Failure happened to concrete surface
3	36	40	10	1.1 N/mm <sup>2</sup>
4	44	50	10	0.9 N/mm <sup>2</sup>

**Shelf Life** : 12 months in closed containers away from direct sun light, heat and humidity.**Environment:**

- Boots, rubber gloves, dust masks, and safety goggles.
- Refer to MATERIAL SAFETY DATA SHEETS (MSDS).

END OF TECHNICAL DATA

**For more information please contact our technical department**

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