Concrete Additives

C-LATEX SBR

Multi-Purpose Bonding Agent

General Properties:

- **C-LATEX SBR** 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 rainforcement, 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 SBR:** 2 water — Filling materials : Cement.
  2. Mix the diluted **C-LATEX SBR** with the cement to get the required slurry that is brushed on old concrete just before casting the new concrete — Consumption : 150 gm/m^2.
- **As bonding agent for spray mortars to fair face concrete:**
  1. Ratio : 1 **C-LATEX SBR** : 3 water — Filling material :1Cement : 3coarse sand by volume
  2. Mix together and spray over fair face concrete. — Consumption :160 gm/m^2 for 2mm coat thickness
- **As an additive to mortars to improve qualities:**
  1. Ratio : 1 **C-LATEX SBR**: 6 water — Filling material: 1 Cement: 5 sand by volume.
  2. Mix together to the required consistency. — Consumption : 400 gm/m^2 / 2 cm coat thickness.
- **For screed up to 50 mm:**
  1. Ratio : 1 **C-LATEX SBR:** 6 water to — Filling material: 1Cement: 5 sand up 4mm size by volume.
  2. Mix together to the required consistency. — Consumption : 200 gm/m^2 / 1 cm coat thickness.

Note: C-LATEX SBR 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 SBR** with thickness 1-2 mm of the slurries.
Concrete substrate having strength 300 kg/cm^2.
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^2 Failure happened to concrete surface
2	28	30	10	1.3 N/mm^2 Failure happened to concrete surface
3	36	40	10	1.1 N/mm^2
4	44	50	10	0.9 N/mm^2

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).

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