

Concrete
Additives

C-BOND

Multi-Purpose Bonding Agent



General Properties:

- **C-BOND** is a bonding agent formulated from modified synthetic resin used with cement & cement mortars.
- Increase bonding strength to smooth surfaces
- Minimizes shrinkage, reduces permeability.
- Improves abrasion resistance, increases mechanical strength.
- Excellent adhesion, non flammable.
- Economic and easy to use.

Uses:

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

Mixing Ratio:

Substrate should be clean & free from any foreign material.

Priming

C-BOND (1) volume.

Water (1 - 4) volume.

Cement (3) volume.

Mix thoroughly to a slurry coat. The topping should be applied whilst the slurry coat is wet, else repeat priming.

Mortar

An ideal mortar mix design consists of:

150 Kgs clean graded sand.

50 Kgs Portland cement.

6-8 Kgs C-BOND

add water till 18 lit. To adjust consistency.

Note:

- C- Bond should not be used solo, it should be mixed always with cement.
- After mixing time for about 10 min. and begin priming to reach the required viscosity.

Technical Data:

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

Four samples were applied with four different ratios of components:

Cement, water and **C-BOND** with thickness 1-2 mm of the slurries.

Concrete substrate having strength 300 kg/cm².

Test applied after 7 days.

Bond to cement substrate as in table below:

	Cement	Water	C-BOND	Pulloff strength test
1	20	20	10	1.25 N/mm ² Failure happened to concrete surface
2	28	30	10	0.9 N/mm ² Failure happened to concrete surface
3	36	40	10	0.8 N/mm ²
4	44	50	10	0.6 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).

END OF TECHNICAL DATA

For more information please contact our technical department

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