

ZC-SEALTITE

HIGH STRENGTH WATERPROOFING COMPOUND AND BONDING AGENT

DESCRIPTION

ZC-SEALTITE is an aqueous Co-polymer emulsion specially formulated for use with cement. ZC-SEALTITE modifies the property of cement in mortars and in concrete to make them perform better in terms of water proofing, repair, corrosion inhibition, bonding, durability and wear resistance.

PRIMARY USES

- 1) Corrosion protection of steel.
- 2) Floor screed and topping.
- 3) Concrete and floor screed repairs.
- 4) Water proofing and tanking of basements.
- 5) Bonding old concrete to new concrete.

ADVANTAGES

Water resistant, excellent adhesion to concrete, steel, brick, stones, compatible with cement. High compressive, tensile and flexural strength. Resistant to ingress of salts, mineral oils etc. Non toxic. Suitable for use in potable water tanks. Excellent corrosion protection. Economical when compared with epoxy mortars.

DIRECTIONS FOR USE

A) Method:

- 1) On a cleaned and prepared surface apply ZC-SEALTITE bonding slurry.
- 2) Apply ZC-SEALTITE modified mortar by float or trowel to form a uniform smooth surface. Bonding slurry sets very fast hence modified mortar application should be fast and immediately after application of bonding slurry.
- 3) Moist cure for 24 hours and then allow it to dry off.

B) Preparation:

Bonding Slurry = Cement + ZC-SEALTITE
1 + 1

NOTE: Applied bonding slurry sets very fast. 1 LTR ZC-SEALTITE with 1 kg of cement gives a slurry which covers 25 to 30 sq/ft. on smooth even surface.

Note : These suggestions and information are offered in good faith but without guarantee as conditions and methods of use are beyond our control, Hence it is desirable for the prospective customer that they determine the suitability of the products and suggestions before commercial usage.

Z CROSS INTERNATIONAL

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MODIFIED MORTAR

Cement	1 kg
Zone II dry Sand	2.6kg
ZC-SEALTITE	200ML
Water	150ML
Yield	1.30 Litres

This mortar covers 7 sq.ft.area if applied to a thickness of 10mm

Note: 1) This mortar looks very dry. No further addition of ZC-SEALTITE or water is to be made.
2) Dosage of ZC-SEALTITE can be varied between 5 ltrs to 15 ltrs. per 50kg bag of cement depending upon application and severity of problem. 2lts per 50kg bag of cement is used in general plaster only as an admixture to produce crack free plaster.

TYPICAL APPLICATIONS

1) Corrosion Repairs of Beams, Columns and Slabs:

- a) Remove the cover concrete and cutback to the sound concrete zone.
- b) Remove all the rust from the reinforcement by mechanical means.
- c) Apply one coat of ZC-SEALTITE bonding slurry on the reinforcement and the surrounding concrete surface.
- d) When the bonding slurry is still tacky apply modified mortar by pressing in position using 10 litre ZC-SEALTITE per 50kg bag of cement. Modified mortar can be applied upto a thickness of 20mm. For building up to higher thickness leave the first layer to dry overnight and apply second layer with one more coat of bonding slurry.
- e) Moist cure for 24 hours and allow it to dry off.

2) Industrial Floor or Floor Duct Nosing Repair:

- a) Cutback to sound concrete surface and make the surface wet.
- b) Apply the bonding slurry and when it is still wet apply the ZC-SEALTITE modified mortar using 10 litre of ZC-SEALTITE per 50 Kg bag of cement
- c) Feather edge to match the original floor level. In case of nosing carefully build up the edge and give a smooth finish.
- d) Moist cure for 24 hours and allow it to dry off.

3) Bonding old Concrete to New Concrete:

- a) Vertical Joint: Apply ZC-SEALTITE bonding slurry on the prepared wet old concrete vertical surface and pour the concrete.
- b) Horizontal joint: Pour and spread ZC-SEALTITE bonding slurry on the wet old concrete surface to a thickness of 3.5 mm and pour fresh concrete.

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4) Plaster & Screed Mortars:

ZC-SEALTITE is admixed at a dosage of 2 liters per 50 kg bag of cement to improve properties of general plaster and screed free from shrinkage crack and for achieving higher compressive and tensile strength. Screeds over water proofing membranes and patch up repairs before application of water proofing membranes are done with ZC-SEALTITE admixed mortars.

PROPERTIES

Form	: Liquid
Colour	: Milky White
Specific gravity	: 1.01
Solid content	: 42% ± 1
PH	: 9.0
Solubility	: Mixes with Water
Application Temperature	: Above 5°C
Physiological Effect	: Neutral
Chemical Nature	: Anionic
Toxicity	: Non Toxic
Particle size	: 0.17 micron
Anti oxidant	: YES
Bactericide	: YES
Antifoam	: YES

PERFORMANCE DATA

Compressive Strength

3 days : 225 Kgs/cm² (22 N/mm²)
7 days : 290 Kgs/cm² (28 N/mm²)
28 days : 350 Kgs/cm² (34 N/mm²)

Tensile strength

3 days : 30 Kgs/cm² (3 N/mm²)
7 days : 44 Kgs/cm² (4.3 N/mm²)
14 days : 82 Kgs/cm² (8 N/mm²)

Flexural Strength

28 days : 92 Kgs/cm² (9 N/mm²)

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TECHNICAL INFORMATION**Typical Engineering Data****Physical Properties of ZC-SEALTITE**

Appearance	-	Free flowing white liquid - dries off to colourless
Sp. gravity	-	1.01
Shelf life	-	1 year in unopened containers

**Typical Result of ZC-SEALTITE
Modified Portland Cement Mortar
Compressive Strength ASTM C190**

(50 mmm) cubes

3 days	210 kg/cm ²
7 days	280 kg/cm ²
28 days	340 kg/cm ²

Flexural Strength ASTM C190

28 days	90 kg/cm ²
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Bond Strength ASTM C-78

14 days	80 kg/cm ²
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Material Requirements

Coverage*	Cement	Sand	ZC-SEALTITE	Water
1) Cement Slurry (55 - 75 m ²) (Bond coat)	50 kg	----	10 - 12 liter	15 - 18 liter
2) Coating for waterproofing (22 to 25 m ² @ 1.5 mm thick)	50 kg	----	10- 12 liter	10 - 12 liter
3) Repair Mortar (10-11 m ² at 13 mm)	50 kg	140 kg	8-10 liter	8 - 10 liter

*** Projected coverage is an estimate only, and is highly dependent upon sub-base texture.**

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