

TECHNICAL DATA SHEET

ADDAGE BONDCOTE - E (Addcrete)

PRODUCT DESCRIPTION

ADD CRETE is a single component acrylic copolymer admixture specially developed to improve the properties of cementitious compositions. **ADD CRETE** when used in combination with standard quality of Ordinary Portland cement, enhances the mechanical properties such as bonding (adhesion) with various building materials, flexural, compression and impact strength, **ADD CRETE** improves the thin section fragility of cement when used as coating. **ADD CRETE** is an admixture polymer cement composite for multipurpose use i.e. waterproofing, surface protection, repair rehabilitation, floor topping, bonding of cementitious material etc.

PROPERTIES

Cures to a hard, tough, wear resistant surface.

Bonds (adheres) strongly to most of the building materials.

Can be applied to uniform thickness coating on horizontal and vertical surfaces.

Allows trapped water vapour to escape but prevents ingress of moisture blistering and adhesion Failure.

Makes cement mortar or coating compact thus preventing salt penetration into concrete.

It is unaffected by UV light and prevents dis-colouration of concrete.

It will not corrode reinforcing steel

APPLICATION

Swimming pools, water tanks, septic tanks, lift pits, internal & external plastered surface, basement box type waterproofing, terrace, etc.

Bridge decks, traffic aprons, runways, parking garages industrial floors etc.

Pools and foundations

Reservoirs, channels, dams, water towers, tunnels etc.

Sewers, silo, foundation walls etc.

Renovation and protection of concrete against corrosion and salt attack etc.

As an additive with cement paints which improves waterproofing property, coverage by 20-25 % and life of cement paint.

As a bonding agent for old concrete to new concrete

SURFACE PREPARATION:

The surface must be free from dust, coatings, loose particles, fungus, moss, oils, paints, bitumen, greases and mould release agents.

Surface must be prepared by scrapping, sand blasting, water blasting, grinding or acid etching to remove the dirt & loose particles.

Cure new concrete and masonry surfaces minimum of 14 days.

METHOD OF APPLICATION

1. Brush coating application

For water proofing of terraces, toilet blocks, swimming pools, water tanks and basements. **ADD CRETE** must be applied at temperature above 10° C and preferably below 35° C. mixing ratio cement **ADD CRETE** is 2:1 After surface preparation, pre-wet the surface with sufficient quantity of water but without any free water. Allow the surface to dry for one hour at least. Mix 2 kg of ordinary Portland cement with 1 lit of **ADD CRETE** homogeneously till no lump or air bubble remains in the mix. Apply the coating by brush and allow it to dry for 2 hours before application of second coat. Minimum two coats are required. After drying of the 2nd coat, it must be overlaid with cementitious screeds.

2. For mortar

Depressions, voids can be filled and leveled by using Add Crate mortar. Use 10% to 18% of **ADD CRETE** on cement weight.

3. For Cement Paints Admixture

Mix 3-4 lit of **ADD CRETE** with 50 kg of cement paint homogeneously to form a uniform mix. Apply the mixed and diluted cement paint by brush Allow to dry 2 hours before application of second coat. Increases the covering capacity of cement paints by 20-25%

ADVANTAGES

Coating is highly durable even in continuous contact with water.

It is resistant to water, dilute acids and alkali solutions.

It is non-flammable, non-hazardous.

Does not evolve toxic gases when exposed to fire

Nontoxic to human beings.

Improve ageing of structures.

CURING METHOD

ADD CRETE coating should be protected from movements or traffic for at 48 hours, and kept moist for the next 24 hours by sprinkling of water or covering with wet gunny bags. Continue the moist curing for at least 72 hours before submersion of ponding water.

PRECAUTION & LIMITATIONS

Must be overlaid with cement plaster or screed.

For horizontal surfaces concrete screed of at least 75 mm thick, must be overlaid.

No for foot traffic.

Pre-wetting the substrate is essential before application.

Must be applied on totally cured substances.

COVERAGE

For Brush Coating – 18 to 19 sq per lit in 2 coats Approx

DOSAGE

Optimum dosage of Addage Bondcote –E is 2:1, two part of cement and one part of Addcrete.

STORAGE

Store material in normal room tempatuature, keep away from direct exposure from sunlight and humidity. Seal tight the container if not in use.

SHELF LIFE

Storage time should not exceed 12 months from receipt of delivery.

PACKING

ADDAGE BONDCOTE - E is available in 50 kg Can & 200 kg barrel.

