

Description

Engineer Plus CAM-90 is triple action unique composition of Organic & Inorganic chemicals. Specially formulated for integral self waterproofing, free flow concrete, to resist growth of micro-organisms and fungus. For effective waterproofing to fill up capillaries in concrete and masonry work. Water reducer and plasticizer cement concrete to manufacture precast concrete elements, cantirileves, structure pretressed concrete, tiles etc. CAM-90.ensures substantial saving in cement, water, time, labour, cost etc. Long life of steel reinforcement is also considerably enhanced.

Areas of Application

Waterproofing of concrete and sand-cement mortars used in

- Basements
- Roof slabs and screeds
- Water tanks & water retaining structures
- External plastering
- Bathrooms and balconies
- Sumps and drains

Features & Benefits

- **Corrosion resistant** - Makes concrete more cohesive, hence protects steel better against corrosion
- **Compatibility** – Being a liquid, easily dispersible & compatible with concrete/mortar mixes.
- **Permeability** – It reduces the permeability of water into concrete.
- **Strength** – The setting time and compressive strength of the concrete remains within the specification limits.
- **Shrinkage** – Reduces shrinkage crack development in plaster & concrete.
- **Workability** – Improves workability of freshly mixed cement concrete.
- **Durability** – Increases durability by improving waterproofing of concrete.

Method of Application

- Add 200ml of Engineer Plus CAM-90 for every 50kg beg of cement in the concrete mortar mix.
- The recommended dose of Engineer Plus CAM-90 should be mixed into the gauging water while preparing concrete or of mortar. The concrete or mortar should be mixed 2 to 3 minutes throughly to -dispense the liquid.
- Cure the applied mortar or concrete as per good construction practice.

Technical Data Sheet

| PROPERTIES | RESULTS |
|--|---------------------|
| Appearance | Free flowing liquid |
| Colour | Pink |
| Sp. gr. @ 25°C | 1.04 - 1.09 |
| Non volatile content | 13.5 - 14.5% |
| pH value | 11.0 - 14.0 |
| Solubility | Water Soluble |
| Setting time, minutes | Passes |
| Chloride content | Max. 2.00% |
| Water permeability | Passes |
| Compressive Strength N/mm ² | As per the standard |



Chemical Test

| Contents | Requirement of ISI 2645 | In CAM-90 |
|----------------------|-------------------------|-----------|
| Total Chloride (cl) | 0.05% max. | 0.030% |
| Total Sulphate (So3) | 0.05% max. | 0.038% |

PHYSICAL TEST OF M. 150 Concrete with 43 grade cement

| Days | Requirement of ISI 2645 | Without CAM-90 | With CAM-90 2ml./kg. Cement |
|---------|-------------------------|----------------|-----------------------------|
| 3 days | | 134.4 mpa | 152.5 mpa |
| 7 days | | 155.5 mpa | 170.7 mpa |
| 28 days | 150kgs. | 229.6 mpa | 261.3 mpa |
| Slump | | 20 mm | 35 mm. |

