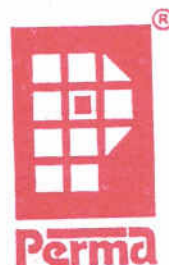


PERMA PLAST - AC



CHLORIDE FREE PLASTICISING AND ACCELERATING COMPOUND FOR CONCRETES AND MORTAR

SPECIFICATION

Perma Plast-AC is a silicate based liquid which acts as a plasticising accelerator for cement concrete and mortars. Perma Plast -AC admixed mortars and concretes set fast giving early & final high strength. Perma Plast-AC is of special use in shot-creting, guniting and concreting in very low temperatures.

PRIMARY USES

1. In fast setting concretes and mortars.
2. Concreting of pre-cast elements.
3. Concreting & rendering in very low temperatures.
4. In reducing rebound losses in sprayed mortar.

TYPICAL APPLICATION

1. Perma Plast -AC is of special use in guniting and shot-creting as its accelerated setting times help in quick rebuilding of mortar layers without collapse.
2. Rebound losses in shot-creting and guniting are minimized. Early shifting of the pre-cast elements is facilitated.
3. In pre-cast hollow / solid blocks, pavers, cement tiles, breaking of the edges while lifting the moulds is minimized.
4. Perma Plast-AC helps in early setting of mortars and concrete in low temperature climates.

ADVANTAGES

1. Rebound losses in shot-creting and guniting are minimized. Saving on material, labour and machine time.
2. Perma Plast-AC is liquid in form, hence easy to use.
3. The plasticising action of Perma Plast-AC helps in complete hydration of cement there by achieving superior strength.

4. Wastage due to breaking in pre-cast elements is reduced saving on production cost.
5. Perma Plast-AC can be used with all types of cements.

DIRECTION FOR USE

In case of short-creting / guniting, Perma Plast-AC is mixed in the guaging water in the required proportion before addition to the dry mix. Hence it can be successfully used in both dry and wet shot-creting processes. In concrete and mortars for pre-casting elements. Perma Plast-AC is dosed through a separate dosing tank fitted above the mixer. It can be dosed manually as well after addition of required water.

DOSAGE

Required dosage of Perma Plast-AC has to be arrived at site by practical trials. The dosage is dependent on temperature conditions, type of cement, type of acceleration required. We however recommend dosages of 1 to 10 percent by wight of cement. Lower dosages are however used in pre-cast elements and higher dosages are used in shot-creting.

PROPERTIES

| | |
|------------------|-------------------------|
| Form | : Chloride free liquid. |
| Specific Gravity | : 1.05 + / - 0.05 |
| Air Entrainment | : Nil |
| Chlorides | : Nil |
| Sulphides | : Nil |
| Nitrates | : Nil |
| Flash Point | : None |

COMPOSITION

Perma Plast-AC is based on refined silicates and synthetic plasticisers.

CAUTION

- Over dosage of Perma Plast-AC results in flash settings of concrete or mortars.
- Do not use frozen aggregates in concreting in low temperature areas.
- For best results keep gauging water to a minimum.
- Areas to be concreted or shot-creted should be free from ice.
- Fresh concrete should be so sheltered as to ensure the preservation of heat of hydration evolved.
- The rules laid down by concreting authorities for cold weather should be strictly followed.

COMPATIBILITY

Perma Plast-AC is compatible with all types of portland cements including sulphate resisting cement. For use with other cements and along with other admixtures please seek the advice of your nearest Perma technical officer or distributor. Perma Plast-AC should not be premixed with other admixtures. If other compatible admixtures to be used in concrete then dose them separately.

HEALTH AND SAFETY

Perma Plast-AC is not a health hazard or fire risk. Spillages should not be washed immediately to avoid possibility of slipping.

PACKING

Perma Plast-AC is available in 20 litre & 210 litre drums.

SHELF LIFE

Twelve months if stored in manufacturer's original packing.

QUALITY ASSURANCE

All "PERMA" branded products are manufactured under strict quality control supervision as per exact manufacturing specifications. Should you find the behaviour of the product varying from the claims in the data sheets please stop the use of the product and contact the nearest Perma Staff or Distributor.

STATEMENT OF RESPONSIBILITY

PERMA branded products when used in accordance with its current published directions for use performs as per its data sheets / catalogue. The manufacturer and the Distributor will not be responsible for other materials and conditions of interior workmanship.

PERMA CONSTRUCTION AIDS PVT. LTD.

611 / 612, Nirmal Corporate Centre,
Mulund (W.), Mumbai - 400 080, INDIA.
Tel.: 91-22-2591 8911 / 2567 4690
Fax : 91-22-2590 3008
E-mail : info@permaindia.com
Visit us at : www.permaindia.com

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