

# NEROLAC PERMA

## CONCRETE SET

Accelerating admixture  
for concrete and mortar.

### SPECIFICATION

Concrete Set is a chloride based accelerating admixture for use in non-reinforced concrete and mortars. When admixed with concrete and mortar along with water Concrete Set accelerates the setting time of the concrete and mortar and helps in achieving high early strength. This product is of use in shot-creting and guniting and in concreting and rendering in cold climatic conditions. Paver industry can highly benefit from the use of this product as it helps in early de-moulding and early shifting of the paver blocks to site saving enormous amount of space utilised in conventional curing and its strength development.

### PRIMARY USES

- In fast setting of concretes and mortars
- Concreting of pre-cast elements
- Concreting and rendering at very low temperatures
- In reducing rebound losses in sprayed mortars
- In paver block industry
- In casting yards of hollow and solid building blocks

### ADVANTAGES



Rebound losses in plastering mortar, shot-creting and guniting are minimized.



Saving on material, labour and machine time.



Concrete Set is in liquid form, hence easy to use.



The plasticising action of Concrete Set helps in complete hydration of cement thereby achieving superior strength.



Wastage due to breaking in pre-cast elements is reduced hence savings on production cost.



Concrete Set can be used with all types of cements.

### DIRECTIONS FOR USE

- In case of shot-creting / guniting, Concrete Set is mixed in the gauging 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 and for pre-casting elements.
- Concrete Set 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 Concrete Set 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 weight of cement. Lower dosages are however used in pre-cast elements and higher dosages are used in shot-creting. For waterproofing the minimum dosage of the product shall be 250 gms/50kg bag of cement.

## PROPERTIES

Physical Form	:	Clear Liquid
Specific Gravity	:	1.34 gm/cc
Viscosity	:	13 Seconds B4 CUP
Ph	:	8 to 9
Solid Content	:	35%

## CAUTION

- Over dosage of Perma Concrete Set results in flash setting of concrete or mortars.
- Do not use frozen aggregates in concreting at 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 or of hydration evolved.
- The result laid down by concreting authorities for cold weather should be strictly followed.

## COMPATIBILITY

Concrete Set 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 technical officer or Distributor. Concrete Set should not be premixed with other admixtures. If other compatible admixtures are to be used in concrete then dose them separately.

## PACKING

Concrete Set is available in 30 Kg & 120 Kg HDPE Drum

## SHELF LIFE

Concrete Set has a shelf life of 24 months if stored in manufacturer's original packing in a cool and dry place away from moisture and heat.

### DISCLAIMER

**KANSAI NEROLAC PAINTS LTD. (KNPL)** warrants that all products are free from any defects of manufacturing and comply with the specification given in their respective technical data sheet. No warranty can be given as to the results of use because conditions of use, such as site conditions, surface preparations, workmanship, weather, structural issues and other factors are beyond the control of NEROLAC. Purchaser agrees to seek the advice of qualified professionals to carry out tests and take trials to determine the suitability of products for their intended purpose, prior to full scale usage of **KNPL** products and assumes all risks.

The company does not assume any liability for unsatisfactory results, arising from the use of our products. Purchaser's sole liability is limited to the replacement of the product or refund of the purchase price paid, if any product is proven defective. No other warranties express or implied, shall apply including any warranty of merchantability or fitness for any particular purpose.

**KNPL** shall not be liable for any consequential damages arising from the use of our products for unsatisfactory results.

The information supplied in this data sheet is based on our experience through extensive research and is given in good faith in order to help prospective users. We reserve the right to update the information provided in our technical data sheet at any time without prior notice within the scope of technical progress or new developments.