



# RETARD

Super plasticising and set retarding admixture for concrete.

CDD	:CIE	ICAT	IUVI
SL	:61Г	IGAI	IUN

ASTM C 494 : Types B,& D IS : 9103-2007

### **DESCRIPTION**

Retard is a liquid admixture for concrete based on refined Lignosulfonates and Naphthalene formaldehyde blends. Retard helps in production of super plasticised and set retarded concrete to enable the delayed pouring of concrete after its production or to get over the problems arising during hot weather concreting.

### **PRIMARY USES**

To produce concrete with delayed initial and final setting times.

## **ADVANTAGES**



Use of Retard in hot weather ensures continuous pours resulting in monolithic sound concrete.



Helps saving cements in rich mixes.



Improves ultimate strengths significantly.

#### **DIRECTIONS FOR USE**

Retard should be added to the concrete mix along with water in the desired dosage. Retard should not be added to the dry mix.

#### DOSAGE

Field trials should be carried out with the given cement and aggregates to arrive at optimum dosages for the desired property to be achieved. However for guidance we specify a range of 0.3 to 0.9 percent by weight of the cement.

### **PROPERTIES**

Form	1	Liquid
Colour	1	Dark Brown / Black
Specific Gravity	1	1.19 gm/cc at 25°C
Chlorides	1	Free from any added chloride.
Sulphates	1	Nil
Nitrates	1	Nil
Freezing Point	1	0°C. Can be reconstituted if stirred after thawing
Flash Point	1	None

#### **HEALTH AND SAFETY**

Retard is not a health hazard or fire risk, spillages should be washed immediately to avoid stains and slipping.

#### PACKING

Retard is available in 10 Litres, 25 Litres, 100 Litres and 210 Litres drum.

### **SHELF LIFE**

Retard has a shelf life of 24 Months from the date of manufacture.

#### 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.