

NEROLAC PERMA

PLAST PC- 405

A polycarboxylic ether based high range plasticising and workability retention admixture for high quality concrete.

DESCRIPTION

Plast PC-405 is based on hyper plasticising synthetic polymers. It may be dispensed at dosages varying between 0.5 to 2 percent by weight of cement depending upon type of concrete required.

PRIMARY USES

- Plast PC-405 is recommended in all high grade concrete, which has a cement content of over 400 kg/m³.
- Plast PC-405 help to control of bleed resulting from poor grading of fine aggregate in the concrete mix.
- Plast PC-405 is of use in hot weather concreting and in concreting works in areas lying high temperature zones.
- Plast PC-405 is recommended in hot weather concreting where workability retention over long periods is required.
- Plast PC-405 is recommended in marine structures, pile foundations, bridge girders, caissons, high rise structures and such structures where quality of concrete is of prime importance.
- Plast PC-405 is also recommended where very high initial and ultimate strengths are expected.

ADVANTAGES



Hyper plasticising action of this product produces free flowing concrete with most kinds of aggregates and varying fine aggregates.



Plast PC-405 maintains the workability over long periods.



Plast PC-405 helps in production of high quality concrete which exhibits superior compressive, tensile and flexural strengths and exhibits excellent resistance to chloride and sulphide attacks on concrete.



Plast PC-405 is compatible with all types of cements including pozzolanic and fly ash / slag cements.



Plast PC-405 is specially suggested in all high strength concrete and in construction of marine structures, pile foundations and bridge girders.



Plast PC-405 enables production of dense impermeable and fair finish concrete.



Plast PC-405 helps to control segregation and bleed in concrete resulting from poor fine aggregate grading.

DIRECTIONS FOR USE

- Plast PC-405 should be added to the mix along with water.
- Addition of plasticisers to the dry mix or dry cement should be avoided.
- During long transits of concrete fifty percent of the recommended dosage of Plast PC-405 can be added at the batching plant and the remaining fifty percent at site just before pouring.

DOSAGE

Field trials should be conducted to determine the optimum dosage of Plast PC-405 for each application. However dosages varying between 0.5 to 2 percent by weight of cement are recommended.

PROPERTIES

Colour	:	Straw Coloured Liquid
Specific Gravity	:	1.08 gm/cc
PH	:	5.6
Chlorides	:	Nil
Nitrate	:	Nil
Usage	:	Shake well before use

COMPOSITION

Plast PC-405 is based on hyper plasticising poly carboxylic ether polymers.

PACKING

Plast PC-405 is available in 25 kg, 100 kg and 200 kg HDPE drum.

SHELF LIFE

Plast PC-405 has a shelf life of 24 months from the date of manufacturers original drums. Plast PC-405 should be stored in a place where temperature does not drop below + 5°C. If the product is frozen, thaw at + 30°C and agitate until completely reconstituted. Shake well before use.

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.