

FARCO PLAST P100

High Early Strength Superplasticizer

Product Description

FARCOPLAST P100 belongs to a novel class of super plasticizers, based on second generation of, poly carboxylic copolymer.

Its molecular structure has been designed to yield the highest efficiency for the production of precast and prestressed elements at low dosage with high early strength without any heat treatment necessary even at low temperatures.

It is also particularly suited for the production of easily compactable and self compacting concrete (SCC).

Applications

· FARCOPLAST P100 is very effective in the manufacture of precast and prestressed concrete products.

· All concrete where the strength must be high in short or long term .

Advantages Plastic concrete

· Improves the quality of concrete by decreasing W/CM up to 40% .

· Reduces placing and consolidation time and labor expenses.

· Reduces curing time and expenses.

· Improves appearance of formed surfaces.

· Dramatically increase early and ultimate compressive and flexural strengths.

· Faster reuse of forms

· Improve impermeability by decreasing water - cement ratio up to 40%

· Improves abrasion and frost resistance decreasing by W/CM.

Hardened concrete

· Increases strength at all ages

· Increases concrete durability and uniformity

· Reduces permeability

· Reduces shrinkage

Standard Compliance

FARCOPLAST P100 complies with:

· ASTM C 494 Type A , Type F

· EN 934 -2

· ISIRI 2930

General Properties

Chemical Composition	Modified polycarboxylate ether
Ionic nature	Anionic
Appearance	Yellowish viscous liquid
PH (undiluted)	6±1
Specific Gravity (kg/l)	1.11±0.03
Chlorides content	<500

Dosage

· FARCOPLAST P100 is normally dosed at a rate of 300-1000gr pre 100kg of cementations materials (0.3% - 1% by weight of CM)

· Field testing is recommended to ensure proper performance.

Method of use

· FARCOPLAST P100 is supplied ready for use and is completely miscible in water.

FARCO PLAST P100

·It can be added in to the mixer at the same time as the mixing water.

·It should not be added directly to the cement or dry materials .

·FARCOPLAST P100 may be added at the end of mixing process by dispensing equipment or it may also be added to the concrete in a drum of ready mix truck, it should be mixed at least 1 minute per m³ of concrete at high speed.

● Compatibility

With cements

FARCOPLAST P100 is suitable for use with cement replacement materials e.g.

Fly ash , silica fume, blast furnace slag cement concrete.

With other Admixtures

P 100 should not be premixed or used with other admixtures unless receive the approval from manufacturer.

We would recommend that SHIMISAKHTEMAN be consulted in such circumstances.

● Packaging

FARCOPLAST P100 is supplied in 20kg gallons , 220kg drums and 1100kg IBC tanks..

● Storage

·FARCOPLAST P100 should be kept from freezing .

·If accidentally frozen, its properties can be restored by thawing and thoroughly mixing by mild agitation..

·Protect from extremes of temperature

·FARCOPLAST P100 is best stored at temperatures Between 5°C and 35°C

● Shelf life

12 month when P100 is kept under the recommended conditions and stored in unopened and undamaged original sealed containers.

● Safety and Handling Precautions

FARCOPLAST P100 is a product classified as harmless but in the line with general chemical handling precautions to avoid contact with skin or eyes, protective gloves and goggles should be worn.

● Technical Service

The SHIMISAKHTEMAN technicals service Department is available to assist you in the concrete problems in the field and correct use of our products.



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