



Conplast® SP430(N1)RAPP

Superplasticising admixture

Uses

- To produce pumpable concrete
- To produce high strength concrete and reduction in water resulting in low permeability and high early strength.
- To produce high workability concrete requiring little or no vibration during placing.

Advantages

- **Improved workability** - Easier, quicker placing and compaction.
- **Increased strength** - Provides high early strength for precast concrete if water reduction is taken advantage of.
- **Improved quality** - Denser, close textured concrete with reduced porosity and hence more durable.
- **Higher cohesion** - Risk of segregation and bleeding minimised; thus aids pumping of concrete
- **Chloride free** - Safe in prestressed concrete and with sulphate resisting cements and marine aggregates.

Standards

Conplast SP430(N1)RAPP complies with IS:9103:1999 and BS:5075 Part 3 and ASTM-C-494 Type 'G' as a high range water reducing,retarding admixture.

Description

Conplast SP430(N1) RAPP is based on Sulphonated Napthalene Polymers and is supplied as a brown liquid instantly dispersible in water.

Conplast SP430(N1)RAPP has been specially formulated to give high water reductions without loss of workability or to produce high quality concrete of reduced permeability.

Properties

Specific gravity	1.17-1.19
Chloride content	<0.05% as per IS 9103-1999
Air entrainment	Approx. 1% additional air is entrained

Compatibility : Can be used with all types of cements except high alumina cement. Conplast SP430(N1)RAPP is compatible with other types of Fosroc admixtures when added separately to the mix. Site trials should be carried out to optimise dosages.

Workability : Can be used to produce flowing concrete that requires no compaction. Some minor adjustments may be required to produce high workable mix without segregation.

Cohesion : Cohesion is improved due to dispersion of cement particles thus minimising segregation and improving surface finish.

Compressive strength : Early strength is increased upto 40 to 50% if water reduction is taken advantage of. Generally, there is improvement in strength depending upon W/C ratio and other mix parameters.

Durability : Reduction in W/C ratio enables increase in density and impermeability thus enhancing durability of concrete.

Application instructions

Dosage

The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with Conplast SP430(N1)RAPP should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 0.3 - 2.0 litres /100 kg cement.

Over dosing

An overdose of above the recommended level of admixture may result in high workability, slight increase in air entrainment and retardation of setting time. The ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete if the concrete is properly placed and cured.

Dispensing

The measured quantity of Conplast SP430(N1)RAPP should be added along with the gauging water. For best results, add Conplast SP430(N1)RAPP in the last phase after prewetting the mix with 80% of the total water required.

Mix design

Fosroc has an advisory service on Concrete Mix Design and can be contacted if assistance is required.

Estimating

Packaging

Conplast SP430(N1)RAPP is supplied in 5, 20, 50 and 200 litre drums.

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Storage

Conplast SP430(N1)RAPP has a minimum shelf life of 12 months when stored under normal temperatures. It should be protected from extreme temperatures and preferably stored in shade.

Precautions

Health & Safety

Conplast SP430(N1)RAPP is non-toxic. Any splashes on the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

Fire

Conplast SP430(N1)RAPP is non flammable.

Additional information

The Fosroc range of associated products includes high strength cementitious, epoxy grout, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin Anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., curing compounds, release agents, flooring systems, repair mortars, sealants and waterproofing materials.

Separate datasheets are available on these products.

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Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

telephone

++91 80-22240018/120

fax

++91 80-22233474

e-mail

india@fosroc.com



Fosroc Chemicals (India) Pvt. Ltd.

Head Office

111/3, Hafeeza Chamber II Floor,
K H Road, P.No. 2744, Bangalore 560027

www.fosroc.com

Regional Offices

Bangalore

Shankar House, IV Floor
1 & 18, RMV Extension
Bangalore 560 080
Ph:080-2361 3161/2361 2004
Fax : 080-2361 7454
email: Bangalore@fosroc.com

Mumbai

208/209, Persepolis
Sector 17, Vashi
Navi Mumbai 400 703
Ph:022-2789 6412/14
Ph:022-2789 6413
Fax: 022 - 2789 6413
email:Mumbai@fosroc.com

Delhi

First floor, 1/2 East Patel Nagar
Opp: Vivek Cinema, Main Patel Rd
New Delhi 110 008
Ph:011-25884903/4
Ph:011-25884422
Fax: 011-25884422
email:Delhi@fosroc.com

Kolkata

P-569, Lake Terrace Extn.
First Floor
Kolkata 700 029
Ph: 033 24650917 / 55343188
Ph: 033-24650891
email:Kolkata@fosroc.com

- Ahmedabad : (079) 26762799 ● Ankleshwar : (02646) 220704/224687 ● Bhubaneshwar : (0674) 2546415 ● Chennai (044) 24899949/24853383
- Chandigarh : (0172) 2639360 ● Cochin : (0484) 2356668 ● Coimbatore : (0422) 2472966 ● Goa : (0832) 2542465 ● Guwahati (0361) 2548793
- Hyderabad : (040) 27662324/27662425 ● Hubli (0836) 09343402597 ● Indore : (0731) 504339/5061477 ● Jaipur : (0141) 2235349
- Jamshedpur : (0657) 2223848 ● Lucknow : (0522) 2239044 ● Nagercoil 09842134873 ● Visakhapatnam : (0891) 2564850 / 2707607

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