

ADMIX PR230

Superplasticizer and High Range Water Reducing Concrete Admixture based on Polynaphthalene Sulfonate with Retarding Property

The basic components of ADMIX PR230 are synthetic polymers which allow mixing water to be reduced considerably and concrete strength to be enhanced significantly, particularly at ultimate ages. This product contains no chloride and meets the requirements of ASTM C-494 Type B, D&G and Iranian National Standard 2930, as well as other international standards. This product is compatible with all types of cements but due to variety of cement and aggregate's properties, site tests are always recommended in each project.

Performance of ADMIX PR230 in concrete

This product increases negative charge of cement particles which causes better dispersion of cement and producing free flow concrete even at low water cement ratio. Concrete with ADMIX PR230 shows strengths higher than concrete without admixture having the same workability. Achieving higher strengths is due to good dispersion of cement particles and better compaction of concrete although initial and final setting time will be delayed.

Applications

The excellent dispersion property of **ADMIX PR230** makes it ideal admixture for high performance concrete and in complicated formwork or with congested reinforcement where low water cement ratios are required. Due to retarding properties, this product is ideal for hot climate, slip formworks, and long-distance transportation.

Effect on hardened concretes

Besides stated effects of this admixture on fresh concrete while mixing and casting, it also has significant positive effects on hardened concrete such as: increasing ultimate compressive and flexural strengths, higher E-modulus, improving adhesion to reinforcing and stressing steel, better resistance to carbonation, lower permeability, better resistance to aggressive atmospheric conditions, reducing shrinkage and creep and increasing durability.

Properties

Appearance	Free flow liquid
Color	Dark brown



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Density	1.18 - 1.20 g/cm ³ at 20°C
pH	7 - 8
Chloride content	< 0.1% w/w

Compatibility

This product should not be premixed with any other admixtures unless be approved by White Damavand specialists. In case of requirement of utilizing other admixtures in concrete, it is highly recommended to add them separately. **ADMIX PR230** is compatible with concretes containing silica fume, fly ash, ground granulated blast or slag cement.

Mixing

ADMIX PR230 is a ready to use admixture and should be added to concrete at the time of batching. The best effect would be achieved if the admixture be added to concrete mix after adding 70 to 80 percent of water content. Never add **ADMIX PR230** to dry cement or aggregate. Full mixing is necessary to achieve maximum benefit, so mix the concrete for 60 seconds in high-speed mixer

Dosages

Recommended dosage of **ADMIX PR230** is 0.5 to 1.2 percent of cement (cementitious materials) content. Dosages outside this range are permissible subject to trial mixes.

Packaging

ADMIX PR230 is supplied in 220 kg drums and 1100 kg IBCs. Bulk delivery is possible based on request.

Storage

This product must be stored in original containers at above +5 °C under cover, out of direct sunlight and protect from extremes of temperature. If frozen, gradually thaw and agitate until completely reconstituted.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage condition contact **White Damavand** Technical Services Department.



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Safety awareness

ADMIX PR230 does not contain any hazardous substances. For more information about safety, please read product material safety data sheet.

Quality approval

All materials produced in **White Damavand** are under strict control of QC department and meet the requirements of international standards.

Supplementary data

For additional information, please contact company's specialists.



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