

Admix LR130

Low dosage Lignin-Polymer based concrete plasticizer with retarding property

Product introduction:

A liquid admixture used for increasing concrete workability, or to reduce water content in order to gain higher strengths. It meets the requirements of ASTM C-494 Type B&D 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 LR130 in concrete:

This product affects on water surface tension and better dispersion of cement particles which results in production of a workable concrete.

Concrete with Admix LR130 shows strengths higher than concrete without admixture having the same workability. Achieving higher strengths is due to good dispersion of cement particles and better compacting of concrete, this product provides controlled retarding affect, hence delay in initial and final setting time in higher dosages.

Applications:

The retarding properties as side effect of Admix LR130, makes it ideal admixture for production of concrete in hot climate and where controlled delay in initial and final set is desirable, such as; mass concrete, dam bodies and foundations, slip formworks, decks and bridges piles, also better adhesion to reinforcements, better compaction where poor aggregate portion is an issue.

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.

Packaging:

Admix LR130 is supplied in 220 and 1100 kg drums. Bulk delivery is possible based on request.

Properties:

Appearance: Free flow liquid

Color: Dark brown

Specific gravity: 1.195 to 2.10 grams per cubic centimeter at 20 C°

PH: 6-7

Chloride content: less than 0.1%

Compatibility:

This product should not be pre mixed with any other admixtures unless be approved by Damavand Sefid specialists. In case of requirement of utilizing other admixtures in concrete, it is highly recommended to add them separately. Admix LR130 is compatible with concretes containing micro silica, fly ash, or ground granulated blast or slag cement.

Consumption rate:

Recommended dosage of Admix LR130 is 0.2 to 0.6 percent of cement (cementitious materials) content. Dosages outside this range are permissible subject to trial mixes.

Note:

Over dosing may result in retardation and delay in initial and final setting, as well as reducing short term strengths.

How to use:

Admix LR130 is 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 LR130 to dry cement or aggregate. Full mixing is necessary to achieve maximum benefit, so mix the concrete for 60 seconds in high speed mixer

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 Damavand Sefid Technical Services Department.

Safety awareness:

Admix LR130 does not contain any dangerous material. For more information about safety, please read product material safety data sheet.

Quality approval:

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

Supplementary data

For any additional information, contact company's specialists in Tehran at: 88678881-3 or e-mail address: info@white-damavand.ir.