

RELIX[®]

Water-Reducing Admixture



RAMKA
CONSTRUCTION
CHEMICALS

RELIX[®] is a plasticizer for ready-mix concrete. It is specially designed to improve the rheology of concrete at project site, to allow for very flowable and with low viscosity.

Applications

- Pumpable concrete
- Ready-mix Concrete
- Concrete containing Micro silica, GGBS and PFA

Approvals / Standards

- ASTM C494-Type A
- ASTM C1017-Type II
- ACI 212.3R-16

Features

- Cement dispersion agent

Advantages / Benefits

- Superior plasticizing effect, resulting in improved flow, placing and compaction characteristics
- Easier to place and finish concrete
- Economical concrete design

Guideline for Use

Mixing

For maximum efficiency, add RELIX admixture after wetting of aggregates and cement, and after at least 75% of final mix water has been added. Allow at least 90 seconds of mixing after addition of RELIX admixture.

Dosage

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired.

Recommended dosage ranges from 0.5 To 1.5 kg per 100 kg of total cementitious material. Other dosages may be recommended in special cases according to the specific site conditions. It is highly recommended that trial mixes be prepared to determine the optimum dosage for your specific performance requirements.

Compatibility

[RELIX](#) is compatible with concretes containing silica fume, fly ash, or ground granulated blast or slag cement. In case of requirement of utilizing other admixtures in concrete, it is highly recommended to add them separately. Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

Effect of Overdosing

Over dosage may cause delay in the setting time, bleeding and segregation problems.

Effects

While mixing and casting, it 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.

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 RAMKA Technical Services Department.

it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Basis Of Data

Product Information

Chemical Base	Calcium Lignosulfonate
State	Liquid
Packaging	20KG Plastic Can / 1100KG IBC Container
Alkali Content (Na ₂ O Equivalent)	< 4.0 %
Chloride Content	< 0.1%
Corrosion Behavior	-
Appearance / Color	Dark Brown
Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging
Storage Condition	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
Density	1.12±0.03 kg/l at 20°C
PH-Value	6-9
Air Entrainment	Typically, less than 2% additional air is entrained at normal dosages.
Recommended Dosage	0.5 – 1.5% by weight of cementitious

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Precautions

Health and Safety

RELIX does not fall into the hazard classifications of current regulations. However,

Fire

RELIX is water based and non-flammable. Cleaning and disposal Spillages of RELIX should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local

legislation under the guidance of the local waste regulatory authority.

Additional Information

For additional information on RELIX admixture, consult to our Technical Services Department.



RAMKA

CONSTRUCCION CHEMICALS

Tel: (+98)2533557596

Mail : info@Ramkaco.com

1th Floor, Loghman St., Qom, Iran

www.RamkaCo.com

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