

REC PLAST F701

HIGH RANGE WATER REDUCING ADMIXTURE

DESCRIPTION

REC PLAST F701 is a high-range water-reducing and super plasticizing admixture is formulated using advanced polycarboxylate technology, specifically engineered for precast concrete to provide maximum water reduction, slump, flow, and improved finishing characteristics while maintaining consistent air contents from initial batching to final placement. In addition, **REC PLAST F701** provides high compressive strengths, flexural strength, and excellent setting characteristics. **REC PLAST F701** can be used to reduce the total cement content and used in combination with supplementary cementitious materials. **REC PLAST F701** does not contain added chlorides or chemicals known to promote the corrosion of steel.

BENEFITS

- Superior slump gain
- Consistent control of air content
- Improved cement hydration
- Low dosage
- Higher early and ultimate strengths
- Lowers number of rejected concrete loads
- Quicker stripping times
- Aids in concrete placement and reduces labor cost.
- Improved finishability.

SCOPE OF USE

REC PLAST F701 is recommended for all cement types in the following areas:

- Pre cast/pre-stressed concrete.
- Self-Consolidating Concrete (SCC)
- High slump, flowable concrete.
- Low water to cement ratio.
- High early Strength Concrete.
- Ready mix concrete.
- Flatwork and mass concrete
- Pervious concrete.

TECHNICAL INFORMATION

Appearance	Liquid
Color	Brown
Specific gravity at 25°C	1.07 ± 0.03
Chloride content	Nil (BS 5075)
Air Entrainment	Less than 2.0% depending on dosage rate and concrete proportioning.

APPLICABLE STANDARDS

REC PLAST F701 complies with ASTM C 494 Type A & F, ASTM C1017 & BS 5075.

INSTRUCTIONS FOR USE

Add **REC PLAST F701** with the initial mixing water or directly into the freshly mixed concrete. For optimum performance, it is recommended to add the admixture after all concrete constituents have been mixed and continue mixing for at least 5 minutes or 70–100 mixer revolutions to ensure uniform dispersion. Do not add **REC PLAST F701** directly to dry cement before addition to the concrete. When multiple admixtures are used, each should be added separately.

For any concrete application including Self-Consolidating Concrete, the dosage of **REC PLAST F701** will vary depending on the mix design, local materials, and individual needs of the concrete producer. Trial mixes are recommended to determine the optimum dosage and to verify both fresh and hardened concrete properties. Where necessary, a compatible viscosity modifying admixture may be used to improve the stability and cohesiveness of SCC.

DOSAGE

Trials should be conducted to determine the optimum dosage of **REC PLAST F701** for a particular mixture. A dosage of 0.4-2.6% per 100 kg of cementitious material is recommended. Further, other dosages are acceptable with prior testing and confirmation of the desired performance with specific materials being used.

EFFECT OF OVER DOSE

Severe over dose of **REC PLAST F701** might result in the following:

- Delay in initial and final setting time.
- Increase in air content
- Higher workability

COMPATIBILITY

REC PLAST F701 is compatible with all types of Portland cement, class C and F fly ash, silica fume, ground granulated blast furnace slag, fibers and approved air entraining, accelerating, retarding, and high-range water-reducing admixtures. **REC PLAST F701** can be used in all types of Portland cement, sulfate resisting cement and cementitious materials. **REC PLAST F701** should be dispensed directly into the mixer and should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing **REC PLAST F701**, they must be dispensed separately. Please consult the company's Technical Department for advice.

DISPENSING

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment.

PACKAGING

REC PLAST F701 can be supplied in pails, drums and tanks.

STORAGE

Up to 2 years when stored in accordance with manufacturer's instructions.

HEALTH & SAFETY

In case of frost, the product recovers its properties after progressive thawing and homogenizing by agitation. In case of contact with skin or eyes, rinse thoroughly with water. If irritation persists, seek medical attention. If swallowed, do not induce vomiting and seek medical attention.

QUALITY STATEMENT

All our products are manufactured to comply with our internal QC program and quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's head office located in Lahore.

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