RECKON
CHEMICALS (PVT) LTD.

# REC POLYPLAST P010

## HIGH PERFORMANCE CONCRETE HYPERPLASTICIZER

## DESCRIPTION

**REC POLYPLAST P010** is a highly effective synthetic polymer-based additive which performs extremely well with Portland cement of various types specifically designed to produce ready mixed concrete for precast with low water binder ratio and excellent workability. **REC POLYPLAST P010** improves the physical and mechanical performance of concrete.

## PROPERTIES

**REC POLYPLAST P010** provides the following properties:

- Allows reduction in cement while maintaining desired strength.
- Accelerates strength development and resulting in higher frequency in use of forms.
- Helps reduce steam curing time thereby reducing energy cost.
- Permits reduction in amount of water normally required for a given workability.
- Allows producer to switch from Type III (high early) cement to less expensive Type I (ordinary).
- Enables development of high strength concrete other than by cement addition.
- Provides flow ability (greater than 200mm slump) of fresh concrete that does not segregate and sets in normal period of time while maintaining desired water-cement ratio.
- Provides concrete with self-consolidating properties.
- Enhances passing/filling ability of the fresh concrete.
- Enhances aesthetic for minimal repairs.
- High water reduction.
- High workability - ease of placing and compaction without segregation.
- Reduced risk of cracks.
- Good pumpability - ease of pumping.
- Good workability - excellent surface appearance.
- Minimal bleeding - excellent concrete quality.
- High elastic modulus - superior load bearing capacity.
- Provides properties for sustainable pre cast.

## SCOPE OF USE

**REC POLYPLAST P010** is recommended for all areas of use of high performance:

- High rise concrete applications.
- Mass concrete.
- High strength concrete.
- Concrete mixes containing Silica Fume, GGBFS or PFA.
- Concrete with high resistance against aggressive media.
- Self Consolidating Concrete.
- High Durable Concrete.

## TECHNICAL INFORMATION

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|---|---|
| Appearance | Liquid |
| Color | Transparent |
| Specific gravity at 25°C | 1.10 ± 0.03 |
| Chloride content | Nil (BS 5075) |
| Air Entrainment | Up to 2.0% depending on dosage rate and concrete proportioning. |

## APPLICABLE STANDARDS:

**REC POLYPLAST P010** complies with ASTM C 494 Type F & G, ASTM C1017 Type I & II, BS EN 934, EN 480 & BS 5075.

## INSTRUCTIONS FOR USE

**REC POLYPLAST P010** should be dispensed after all concrete constituents are charged in the central mixer preferably after approximately 60% of water addition.

## DOSAGE

Trials should be conducted to determine the optimum dosage of **REC POLYPLAST P010** for a particular mixture. A dosage of 0.4-2.6% per 100 kg of cementitious material is recommended. Further the required dosage for a specific site with controlled delay in setting and workability should be determined by in-situ trials. In addition, admixture demand varies with w/b of the concrete, cement type, pozzolanic materials and ambient temperature. Trials are to be conducted prior to use in order to determine required performance, including workability retention, setting, and strength development.

## EFFECTS OF OVER DOSE

Severe over dose of **REC POLYPLAST P010** will result in the following:

- Delay in initial setting time.
- Increase in air content
- Higher workability
- Impair Consistency and Cohesion.

Dependent upon the level of overdose, concrete mixture details and conditions involved.

## COMPATIBILITY

**REC POLYPLAST P010** can be used in mixtures containing:

- Silica fume
- Fly Ash
- GGBFS
- Pozzolanic Binders

Consult technical department of Reckon Chemicals 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 POLYPLAST P010** 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 QA/QC program and quality management system to ensure consistency and quality.

## DISCLAIMER

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ISO 45001:2018 | ISO 9001:2015 | ISO 14001:2015