

RECPLAST Z

SHRINKAGE COMPENSATING ADMIXTURE

DESCRIPTION

RECPLAST Z is a powdered admixture used for the compensation and total overall reduction of net shrinkage for Portland Cement concrete. Its functional mechanism is based on the formation of an expansive component. RECPLAST Z is an expansive Type G component, which produces a calcium hydroxide platelet crystal system, as specified in ACI 223.

PRIMARY APPLICATIONS

- Flatwork concrete
- Bridge decks
- Parking structures
- Interior/Exterior
- Arena/Artificial skating rinks
- Walls/Parapets
- Storage tanks
- Watertight construction
- Toppings
- Piers

FEATURES/BENEFITS

- The expansion characteristics of RECPLAST Z allow for net shrinkage reduction for concrete.
- Use of this admixture does not cause any slump loss and may be used in conjunction with other Reckon Chemical admixtures.
- Will not affect the mechanical strengths.
- It is compatible with the majority of Portland cements.
- RECPLAST Z does not affect the air content, set time, or other characteristics of fresh concrete.
- Freeze-thaw and Salt Scaling Resistance are not affected given that an adequate air void system is provided.
- Expansion process is not through ettringite formation.

TECHNICAL INFORMATION

Specific Gravity..... 3.13 - 3.16

pH..... 12.5 - 13

Appearance: RECPLAST Z is a free-flowing fine beige powder designed to be mixed with concrete.

Test Methods used to evaluate RECPLAST Z:

- ASTM C 878
- ASTM C157 modified in accordance with Technical Guidance
- Embedded vibrating strain gauges For more information please contact your Reckon Technical Sales Representative.

PACKAGING

RECPLAST Z is packaged in (25 kg) pails and (10 kg) pulpable bags.

SHELF LIFE

1 year in original, unopened (25 kg) pails and (10 kg) pulpable bags.

DIRECTIONS FOR USE

- For best results, use RECPLAST Z in concrete with the W/C (water to cement ratio) lower than 0.60.
- RECPLAST Z should be uniformly added with the cement or with the aggregates on the conveyor or in the scale, taking into consideration the safety of the operator.
- Concrete treated with RECPLAST Z may be finished and placed in the same fashion as conventional concrete.
- Typical dosage rate of 0.2 - 0.6% bwoc (by weight of cementitious). Before use, test in accordance with ACI 223 to determine the correct dose needed.

- Concrete should be mixed a minimum of 10 minutes, at normal mixing speed, after all concrete constituents have been batched to ensure thorough dispersion of all materials. Trials are recommended to determine appropriate dosage and will depend on: local materials, mix design, and structural design.

PRECAUTIONS/LIMITATIONS

- The use of this product requires a minimum 48-hour wet curing period, with maximum performance obtained after a 7-day curing period. For optimal moist curing efficiency, the use of curing blankets is recommended.
- As soon as the moist curing period is finished, it is recommended to use a curing compound as provided by The Reckon Chemical Company.
- Preliminary trials should be done to determine the optimum dosage.
- RECPLAST Z is sensitive to humidity, free water, and to CO₂, and should be stored and handled in the same manner as Portland cement. Keep in perfectly sealed, original package and in a dry location. In all cases, consult the Safety Data Sheet before use.

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