

TECSY AIR 514

AIR ENTRAINING ADMIXTURE

DESCRIPTION

TECSY AIR 514 is an air entraining admixture, which creates ultra-stable air bubbles that are strong, small and closely spaced.

APPLICATION

TECSY AIR 514 is recommended for use whenever air entrained concrete is desired. Ready-mix, precast and block producers can achieve predictable and uniform entrained air content in concrete.

BENEFITS

- Air entrainment is recognized as the most effective prevention against concrete scaling in exposed environments. Air entrained concrete delivers particular benefits in the form of increased concrete durability. This is important in colder climates where frost and freeze, thaw cycles can cause scaling and damage to the concrete surface.
- Air entraining agents help to prevent scaling by creating microscopic air voids, trapped water in the concrete would expand when the concrete freezes, thus preventing cracks caused by the natural expansion. Entrained air voids in the concrete will also increase durability in harsh environments where concrete is exposed to de-icing salts, marine salts and sulfates.
- Workability and placeability are also improved by the lubricating action of the microscopic bubbles in the concrete. Concrete will flow better and bleeding and shrinkage will be reduced because less water is needed to obtain the desired workability.

TYPICAL PROPERTIES

Appearance	:	Clear Colourless Liquid
pH Value	:	10.2 - 11
Specific Gravity	:	1.0
Chloride Content	:	Nil
Dry Extract (%)	:	14 ± 1 %

APPLICATION PROCEDURE

Measure the required quantity per batch manually or with automatic dispenser equipment. Add TECSY AIR 514 to mixing water. Do not mix with dry cement. When TECSY AIR 514 is used in combination with other admixtures, care must be taken to dispense each admixture separately into the mix.

Combination with other admixtures, particularly water reducers and retarders, may increase the amount of entrained air in the mix. Air concretes should be checked with an air meter after batching and dosage adjustments made at the concrete plant.

DOSAGE

There is no standard dosage rate for TECSY AIR 514 admixture. The exact quantity of air entraining admixtures needed should be determined by trail mixes. Factors are: temperature, cement, sand grading, sand aggregate ratio, slump, means of conveying and placement, use of extra lime material such as flyash and microsilica.

The amount of TECSY AIR 514 admixture used will depend upon the amount of entrained air required under actual job condition. In a trail mix, use 100 ml / 100 kg of cement.

STORAGE AND SHELF LIFE

To be stored away from heat and frost. Before 12 months from the date of manufacture.

PACKING

TECSY AIR 514 is available in 50 kg and 200 kg HDPE drums.

DISCLAIMER

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Manufactured by:



No. 9B, New No. 19B, Park Street, Kilpauk Garden Colony, Chennai - 600 010.

Ph: +91 44 2644 1015 / 16, 4269 8671 Fax: +91 44 2644 1017. E-mail: info@chemcontecsys.com