



ASIAN LABORATORIES

CONSTRUCTION CHEMICAL MANUFACTURERS

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CEMWET SP – 3000 (PCE-SR) (Multifunctional Shrinkage Reducing Superplasticizer)

DESCRIPTION :

CEMWET SP-3000 (PCE-SR) is a multifunctional new generation Superplasticizer having hydrophobic functional group to induce shrinkage reducing properties. The product is polycarbo-ether based product which allows mixing water to be reduced considerably maintaining slump of concrete for long period of time. The product reduces autogenous & drying shrinkage upto 50% at a very low dosage

PRIMARY USES.

1. Suitable for high volume fly ash concrete
2. Suitable for all types of hydraulic cement, OPC, SLAG, PPC etc.
3. Increase durability of concrete by reducing shrinkage.
4. Suitable for low water / cement ratio concrete below 0.4 to reduce drying shrinkages
5. Wet-Mix shotcrete
6. Mortar and Grouts

SPECIALITY:

CEMWET SP-3000 (PCE-SR) reduces W/C to produce high performance, durable concrete.

CEMWET SP-3000 (PCE-SR) reduce the number of harmful cracks.

CEMWET SP-3000(PCE-SR) satisfies ASTM C-494 Type-G and IS 9103-99 at normal Dosage.

CEMWET SP 3000(PCE-SR) enhances water tightness in water-retaining structures.

CEMWET SP 3000(PCE-SR) reduces joint maintenance cost in concrete slabs.

CEMWET SP 3000(PCE-SR) permits increase in joint spacing.

DOSAGE :

Recommended dosage is 0.2% to 1.0% by wt. of Cementitious, depending on the Specific application. A reduction of mix water content up-to 25% is possible depending on the mix design. The dosage can be increased up-to maximum 2.0 by wt of cementitious under special circumstances.

EFFECTS OF OVER DOSAGE :

- (I) Retardation of initial and final set
- (II) Slight increase in air entrainment
- (III) Increase in workability

CEMWET SP 3000 (PCE-SR) reduces drying shrinkage of concrete relative to a plain reference mixture as measured by the AS:1012.13 test method. As shown in the table below, concrete produced with CEMWET SP 3000 (PCE-SR) showed reduction in drying shrinkage up-to 52% at 7 Days & 30% at 90 Days with very low dosages.

DOSAGE (% by wt of Cementitious)	SHRINKAGE REDUCTION % AT		
	7 DAYS	28 DAYS	90 DAYS
0.5%	30	19	12
0.8%	52.5	35	28

COMPATIBILITY:

CEMWET SP 3000 (PCE-SR) is compatible with all Asian Water Reducers, set retarders, accelerators, CEMWET SRA-2 Shrinkage reducing admixture.

PACKING:

220 Kg drums. Bulk deliveries in tankers are available on request.

TYPICAL PROPERTIES

Color : Yellow to Brown
Specific Gravity : 1.10 ± 0.020
Chloride Content : NIL to BS 5075, to IS 456-2000
pH : 7.5 ± 1.0

SAFETY PRECAUTIONS:

CEMWET SP-3000 (PCE-SR) contains no hazardous substances.

STORAGE :

CEMWET SP-3000 (PCE-SR), in tightly closed original contains, has a shelf life of at least 2 years. The product must be stored in a place where temperatures do not drop below + 5°C. If the product has frozen, thaw and agitate until completely reconstituted.