

Data Fact Sheet

SILOX-FLOW T-34



SILOX-FLOW T-34 superplasticizer and Retarding admixture based on PCE for concrete mixes

DESCRIPTION

SILOX FLOW T-34 liquid admixture based on modified polycarboxylate belongs to third generation admixtures that gives high performance of concrete mix, improve the fluidity, keep the slump retention and make concrete easier to construct.
Free of chloride and low alkali compatible with all types of cement.

RECOMMENDED USE

- Self-compaction concrete
- Ready mixed concrete
- High workability without segregation or bleeding
- High performance concrete for durability

FEATURES AND BENIFITS

- Low water cement ratio. Obtain early strength
- Rheo plastic concrete producing
- Optimize curing cycles by reducing curing time
- Increase productivity / reduction in cycle time
- Improved engineering properties, compared to traditional superplasticizer
- Improve cohesion of mix
- Increase workability retention

PERFORMANCE TEST DATA

colour	yellow to light brown
Specific gravity	1.06 ± 0.02 at 25°C
pH	5 ± 2
chloride ion Content	Nil
Alkali content	Less than 6 %

TEST CERTIFICATION/APPROVALS

- The product shall be complying with ASTM C494
- ASTM C-494 Type G & F
 - EN 934-2

DOSAGE

Optimum dosage of SILOX FLOW T-34 should be determined with trial mixes.
As a guide, a dosage ranges from **0.5% - 4,5%** of cement content & cementitious material
Because of variations in concrete materials, job site conditions, dosages outside of the recommended range may be required in such cases.



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Overdose effects:

- Reduced permeability
- Increase in air entrainment
- Increased plastic shrinkage

A slight overdosing may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on form work, and stripping times should be monitored.

PACKAGING

SILOX FLOW T-34 is available in 5kg, 10kg, 20kg & 200kg drums or bulk 1000L.

STORAGE/ SHELF LIFE

SILOX FLOW T-34 must be stored where temperatures do not drop below +5°C. Do not use pressurized air for agitation preferable to use hand drill mixer. Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is 12 months when stored as above.



COMPABILITY DUCONMIX

SILOX FLOW T-34 is not compatible with Melamine or Naphthalene based admixtures and should not be used in conjunction in the same mix. It's compatible with lignosulphonates and carboxylic acid-based plasticiser and retarders and with most type of air-entrainers, accelerators, corrosion inhibitors, and shrinkage reducers. SILOX FLOW T-34 compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

PRECAUTION

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately.

