# SF-200 TECHNICAL DATA SHEET



### **DIRECTIONS**

**ACEIT SF-200** is a proprietary ready-to-use concrete admixture, specifically engineered for all concrete including low-slump/high-strength concrete, compactable/slip form concrete, Roller Compacted Concrete, and cement treated bases. It has been scientifically engineered to stabilize phase II cement hydration, affording the end user greater open time for the concrete mixture. **ACEIT SF-200** is a blended liquid additive that is odorless, tasteless and bio-degradable. **ACEIT SF-200** can be used to reduce the total cement content and used in combination with supplementary cementitious materials (SCMs). **ACEIT SF-200** does not contain added chloride ions or chemicals known to promote the corrosion of steel. It is comprised of a unique blend of concentrated processed chemistry.

#### **FEATURES**

- 1. Decrease quantity of mixing water (water/cement ratio)
- 2. Increase cement efficiency
- 3. Hydration stabilizer allowing greater transport/open working time, and paste distribution during concrete mixing.
- 4. Enhance workability of harsh concrete mixtures
- 5. Increase material transport time thereby increasing logistical plant service area
- 6. Decrease compaction and consolidation efforts
- Increased cohesiveness of wear surface
- 8. Reduction in tear and edge slumping during slip form process while increasing workability
- 9. Optimized mixture costs
- 10. SF-200 dosage flexibility can customize the mix to achieve different desired results: ie...delayed set, increased density, increased workability, reduced w/c ratio

The combination of these features provides the user with a more workable mix that can provide increased strength, increased workability, extended pot life, increased density, and overall sustainability and performance. SF-200 concrete mixes become easier to mix, place, compact, and allow for a finished and tooled surface that is unsurpassed by conventional admixtures.





## **BATCH QUANTITY SSD**

Lab ID	Control	SF-200
Cement, Type I/II, Ibs.	517	517
C 33 Sand, Ibs./yd³	1241	1241
#67 Stone, lbs./yd³	1687	1687
Water, Ibs./yd³	268	236
ACEIT SF-100, fl. oz./cwt	NA	8.0

## **CONCRETE TEST DATA**

LAB ID	CONTROL	SF-200
Air Content, %	6.4	5.5
Slump, inches	4.5	4.0
Water/Cement Ratio	0.52	0.46
Unit Weight, PCF	143.5	143.6

## **ASTM C 403 CONCRETE TIME OF SETTING**

LAB ID	CONTROL	SF-200
Initial, hr:mn	4:48	7:52
Final, hr:mn	6:21	9:49





#### COMPRESSIVE STRENGTH RESULTS

Lab ID	CONTROL PSI	SF-200(PSI)
3-DAY	3,380	4,620
7-DAY	4,723	6,151
28-DAY	6,066	7,716

#### **FLEXURAL STRENGTH RESULTS**

Lab ID	CONTROL (PSI)	SF-200(PSI)
3-DAY	613	706
7-DAY	762	827
28-DAY	879	954

#### **BENEFITS**

- Can be used in conjunction with other concrete chemical admixtures, i.e., air entraining, set retarders, set accelerators, shrinkage reducers, micro silica; however, each material should be added to the concrete mix separately. For further information please contact an ACEIT Sales professional for any compatibility issues.
- Increased cement paste workability and consolidation. The use of **ACEIT SF-200** allows the user to achieve total mix workability, a tighter surface, and increase density.
- Lower water demand to achieve similar workability, higher density and strength.
- Extended working/finish/transport time especially desirable during hot weather placements





### **DOSAGE RATES**

Typical dosage rates for **ACEIT SF-200**: 4-12 ounces per 100# Cement

Product	Dose range Ounces/100 weight of cement	ASTM C-494 TYPE
SF-200	2.0 to 4.0 fl. oz/cwt	Type D, & S
SF-200	5.0 to 12.0 fl. oz/cwt	Type G & S

## HANDLING/PACKAGING

All measures should be taken to ensure that packaging is not damaged prior to immediate use of the material and that it does not become contaminated with other materials. Should separation occur over extended period of time, recirculating material is suggested. ACEiT SF-200 is typically packaged in 275-gallon totes or bulk tanker.

## **GUIDELINES FOR USE**

**ACEIT SF-200** can be added to both ready-mix i.e., pre-mix/dry batch and continuous mix plants i.e., Pug-Mill plants. When used in ready-mix application, **ACEIT SF-200** can be added to the initial batch water or directly on the freshly batched concrete and mixed for approximately 5 minutes or 70 revolutions. It should not come into contact with dry cement or other admixtures until mixed thoroughly with the concrete batch. **ACEIT SF-200** is dispensed with automatic equipment, thus ensuring uniformity of admixture use throughout the project.

## STORAGE AND PRECAUTIONS

- Care should be taken to maintain **ACEIT SF-200** above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated.
- Do not agitate with air.
- Add to concrete mix independent of other admixtures.
- All measures should be taken to ensure that packaging is not damaged prior to immediate use of the material and that it does not become contaminated with other materials. Should separation occur over extended period of time, recirculating material is suggested.
- In all cases, consult the Material Safety Data Sheet before use.





For additional information please visit our web site at: www.aceitusa.com or call (316) 832-0063

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