RUSSTECH©

FLOW SET 2000 NC

NON-CHLORIDE
ACCELERATING
MID-RANGE WATER-REDUCING
ADMIXTURE FOR CONCRETE

DESCRIPTION:
FLOW SET 2000 NC is a non-chloride, mid range water-reducing admixture for concrete. It is designed to facilitate the placing and finishing of concrete while providing control over the set time. **FLOW SET 2000 NC** is especially beneficial in mixes containing fly ash and or ground granulated blast-furnace slag (GGBFS).

ADVANTAGES:
- Improves quality of concrete by decreasing water-cement ratio
- Increases compressive and flexural strengths
- Levels of fly ash and GGBFS can be increased in concrete mixtures
- Reduces water content needed for a given workability
- Reduces cracking and shrinkage
- Reduces surface bleeding
- Reduces segregation
- Provides superior finishability on all flatwork and pre-cast surfaces
- Improves pumpability and workability of concrete even in mixtures with low contents of cementitious materials
- Maintains slump life during extended mixing times
- Provides variable control of setting time-based on dosage rate
- Improved performance over a wide range of cements, fly ashes, silica fumes, GGBFS, and a variety of different mix combinations

DOSAGE RATE:
FLOW SET 2000 NC is recommended for use at a dosage rate of 8 to 30 fluid ounces per 100 pounds (520 to 1960 mL per 100 kg) of cement .

SPECIFICATIONS:
Conforms to:
ASTM C 494 Types A, C, and E
AASHTO M 194 Types A, C, and E
CRD C 87 Types A, C, and E
All other Federal and State specifications

MIX PERFORMANCE DATA:
420 lbs. (249 kg) of Type I cement
140 lbs. (83 kg) of Class C fly ash per cubic yard (cubic meter).
Air Content 5-6%
Ambient Temperature 48 F (9 C)
Concrete Temperature 70 F (21 C)

Compressive Strength:
FLOW SET 2000 NC at 10 ounces per 100 pounds (652 mL per 100 kg) cementitious material
Slump 5.0 inches (127 mm)

Mix	7 day		28 Day	
	psi	MPa	psi	MPa
Plain	3420	23.5	4560	31.4
FLOW SET 2000 NC	4280	29.5	5460	37.6

Time of Set:
FLOW SET 2000 NC at 10 ounces per 100 pounds (652 mL per 100 kg) cementitious material
Slump 5.0 inches (127 mm)

	Initial Set Hours: Minutes	Difference Hours: Minutes
Plain Mix	11:40	--
FLOW SET 2000 NC	9:52	+1:48* Faster

Compressive Strength:
FLOW SET 2000 NC at 20 ounces per 100 pounds (1305 mL per 100 kg) cementitious material
Slump 7.0 inches (178 mm)

Mix	7 day		28 Day	
	psi	MPa	psi	MPa
Plain	3420	23.5	4560	31.4
FLOW SET 2000 NC	4520	31.2	6560	45.2

Time of Set:
FLOW SET 2000 NC at 20 ounces per 100 pounds (1305 mL per 100 kg) cementitious material
Slump 7.0 inches (178 mm)

	Initial Set Hours: Minutes	Difference Hours: Minutes
Plain Mix	11:40	--
FLOW SET 2000 NC	6:28	+5:12* Faster

*As the dosage rate of **FLOW SET 2000 NC** increases, concrete sets faster while achieving greater workability and ultimate strengths.

NON-CORROSIVE:
FLOW SET 2000 NC does not contain calcium chloride or any chloride-based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

STORAGE PRECAUTIONS:
FLOW SET 2000 NC may freeze at temperatures below 35 F (2 C). Although freezing does not harm **FLOW SET 2000 NC**, precautions should be taken to protect it from freezing. If it should happen to freeze, thaw and reconstitute with mechanical agitation. **DO NOT USE PRESSURIZED AIR FOR AGITATION.**

COMPATIBILITY:
FLOW SET 2000 NC is compatible with all types of Portland cement, class C and F fly ash, silica fume, fibers, approved air entraining and water-reducing admixtures.

Consult with your local RussTech technical service representative for advice on combining different admixtures.
FLOW SET 2000 NC can be used in white, colored, and architectural concrete. For best results, each admixture must be added separately into the concrete mix.

PACKAGING:
55-gallon drums, 275-gallon tote tanks, and bulk tank truck

SHELF LIFE:
18 months

VISIT US ON THE WEB AT:
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"We Add The Difference"

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