

RUSSTECH[®]

LCNC-166

NON-CHLORIDE ACCELERATING WATER-REDUCING ADMIXTURE FOR CONCRETE

DESCRIPTION:

LCNC-166 is a multi-component, chloride-free, water-reducing accelerator for concrete. It promotes higher early and ultimate strengths; especially in concrete exposed to temperatures below freezing. Concrete placed in colder weather with **LCNC-166** is able to maintain normal set times without the introduction of chloride-bearing components.

USES:

- Can be used year round for higher and earlier strength gain
- Concrete subject to chloride ion constraints
- Concrete bridge decks and prestressed concrete repair
- Concrete subject to ambient temperatures as low as 20 F (-7 C)
- Prestressed concrete and concrete over metal decking and roof systems
- Pre-cast, site cast, and all other steel reinforced concrete

ADVANTAGES:

- Aids in prevention of concrete from freezing at higher dosages
- Increases rate at which heat is generated during hydration- promotes earlier setting, finishing, and strength gain
- Earlier use of structural concrete
- Faster stripping and reuse of forms
- Improves cohesiveness and plasticity which aids in avoiding honeycombing
- Increases early and ultimate compressive and flexural strengths
- Provides earlier finishing of slabs
- Provides superior finishability on all flatwork and pre-cast surfaces
- Reduces protection time required in cold weather

SPECIFICATIONS:

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

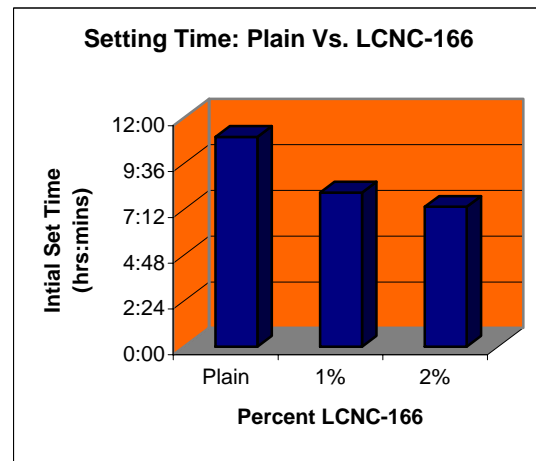
MIX PERFORMANCE DATA:

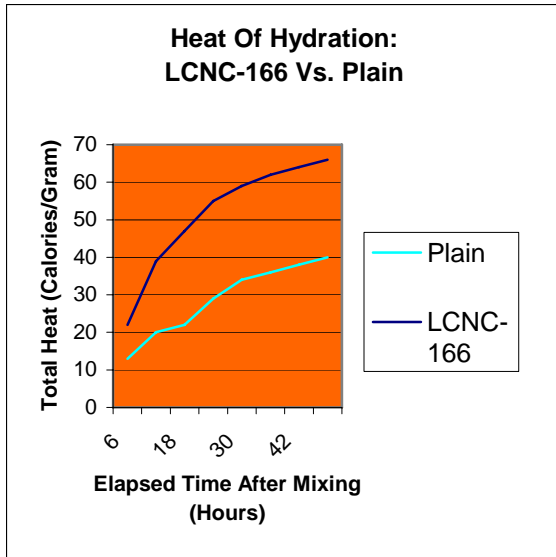
517 lbs. (307 kg) of Type I cement per cubic yard (cubic meter) Slump 5.5 inches (140 mm)
Ambient Temperature 50 F (10 C)
Concrete Temperature 50 F (10 C)
Concrete field cured at 44 F (6.7 C) to 60 F (15.6 C) during whole 28 day cycle.

Compressive Strength:

LCNC-166 at 54 ounces per 100 pounds (3521 mL per 100 kg) cement

<u>Mix Age</u>	<u>Plain</u>		<u>LCNC-166</u>	
	<u>psi</u>	<u>MPa</u>	<u>psi</u>	<u>MPa</u>
1 Day	640	4.4	1210	8.3
3 Day	1510	10.4	2470	17.0
7 Day	2490	17.2	3580	24.7
28 Day	4130	28.5	5265	36.3



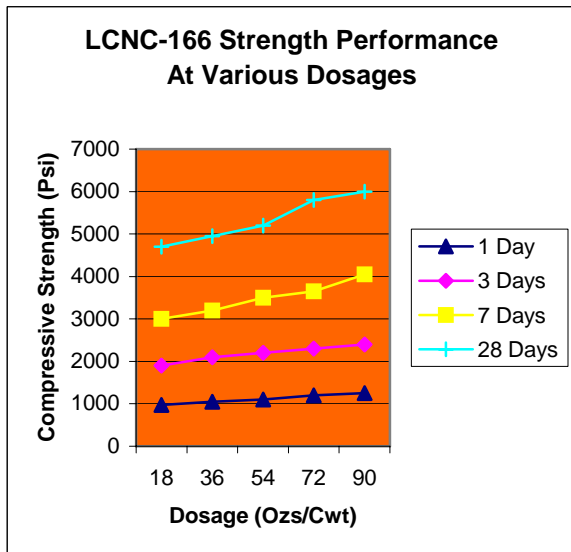


TECHNICAL NOTE:

LCNC-166 does not contain calcium chloride or any chloride-based components. **LCNC-166** will not initiate or promote the corrosion of steel in concrete used with:

- Galvanized steel flooring or roofing systems left for permanent construction
- Rebar, wire mesh or metal fibers
- Pre-cast, site cast, and prestressed steel reinforcement
- Steel cable in both pre-tensioned and post-tensioned applications

For sub-freezing concrete placements consult with your local RussTech technical service representative for dosage requirements of **LCNC-166** for freeze-resistant concrete.



DOSAGE RATE:

LCNC-166 is recommended for use at a dosage rate of 8 to 90 fluid ounces per 100 pounds (522 to 5870 mL per 100kg) of cementitious.

PACKAGING:

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

STORAGE:

LCNC-166 may freeze at temperatures below 5 F (-15 C) Although freezing does not harm **LCNC-166**, 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:

LCNC-166 is compatible with all types of portland cement, class C and F fly ash, silica fume, fibers, all approved air entraining, accelerating, superplasticizing, and water-reducing admixtures. For best results, each admixture must be added separately to the concrete mix.

SHELF LIFE:

18 months

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"We Add The Difference"