

# K A U F M A N

PRODUCT  
INFORMATION

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## Excell NC 80

### Description

Excell NC 80 is a special accelerating; water-reducing admixture for concrete and mortar that does not contain calcium chloride or added chloride ions. This product improves the properties of both plastic and hardened concrete by offering significant improvements in both early stiffening and setting characteristics, improved workability and reduced bleeding and segregation. Excell NC 80 works equally with white, gray or colored masonry cements without causing discoloration, as well as with other admixtures.

### Uses

Excell NC 80 is designed for use in concrete and mortar in cold weather conditions. It will substantially speed the set and strength gain over unmodified mixes. It can be safely used in all plain concrete block, mortar, pipe and other precast and post-tensioned concrete.

Mortars and concrete containing this admixture can be placed in contact with steel, since this non-corrosive accelerator is completely free of materials that cause corrosion.

### Specifications

Excell NC 80 is formulated to comply with ASTM C-494, Type C and E as well as C1384 for Set Accelerating Admixtures for Masonry Mortars.

### Packaging

1 gallon jugs (4 per case)  
5 gallon pails  
55 gallon drums

### VOC

0 grams / Liter

### Directions

For temperatures of 32F to 60F add to concrete at the rate of 16 oz per 100 lb. of cement. For temperatures below 50F, follow ACI 306, "Recommended Practice for Cold Weather Concreting". For temperatures above 60F, Excell NC 80 rates may be reduced.

### Precautions

Bring material to at least 32°F before using. Excell NC 80 will freeze at temperatures of approximately 0°F. Freezing will not harm the product, if brought to 40°F and thoroughly agitated.

### Technical Properties

Tested @ 40°F

Dosage Amount: 16 oz. of Excell NC80 per bag of masonry cement (ASTM C270)

Mix	Set Time Decrease	Compression Strength PSI	
		3 day	7 day

#### Type M

Neat		475	960
w/ Excell 80	26%	570	1100

#### Type S

Neat		430	820
w/ Excell 80	40%	470	890

#### Type N

Neat		230	460
w/ Excell 80	38%	300	540

Excell NC 80 is not an anti-freeze for mixed cement products. We recommend test batches to be sure that performance is satisfactory before using. Prevent concrete or mortar from freezing until a minimum of 500 psi. is achieved. Do not dispense directly onto dry cement.

Always follow ACI engineering guides. No frozen materials should be used. Erecting a windbreak around work helps to prevent rapid evaporation. Masonry should be protected from freezing for 24 hours after laying, until 1,000 psi. is achieved. Wall areas adjacent to metal bucks must be kept dry and free from all water, ice and snow, otherwise door frames may rust since water and oxygen cause steel to rust. Priming of metal frames with an asphalt paint or primer should be considered to prevent rusting. Never dispense onto dry cement. For temperatures below 32°F, heat aggregates, use warm water so that concrete temperatures when mixed rise above 50°F

### Technical Information

Test results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

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