

K A U F M A N

PRODUCT
INFORMATION

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Excell

Description

Excell is a concentrated solution of chemically active accelerating agents, powerful surfactants and rust inhibitors. It is designed for use in mortars to reduce the water requirements, shorten the set time, increase strength development and increase the workability of the mortar mix. Excell works equally with white, gray or colored masonry cement without causing discoloration.

Uses

In cold weather, Excell is added to the mortar to lay block, brick, structural clay tile and glass block. It eliminates the dangers associated with freezing mortar joints. Excell speeds the set of the mortar, hastens the strength gain by chemically reacting with the cement and reducing the water requirement.

Excell will help reduce construction costs by eliminating cold weather delays. The surfactants improve the workability and actually increase the density of the mortar mix.

Engineering Properties Test Results of Prepared Mortars

	<u>Plain</u>	<u>With Excell</u>
Set Times (C191) hrs. /mins.		
Initial Set	3:30	2:20
Final Set	5:00	4:30

Compressive Strength (C109) PSI

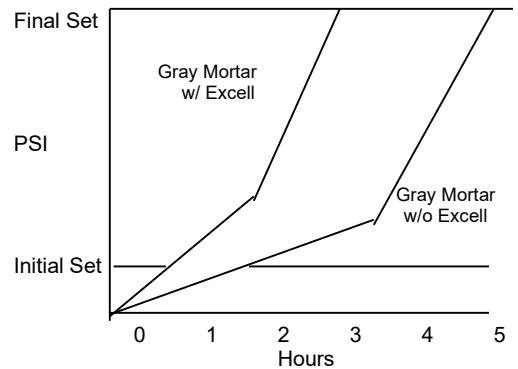
	<u>Plain</u>	<u>With Excell</u>
1 day	5	50
3 days	400	500
7 days	700	800
28 days	800	900

	<u>Plain</u>	<u>With Excell</u>
Water Retention (C91)	72%	80%

Packaging

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

Setting Time Difference with Excell In Gray Mortar



VOC

0 gal/Liter

Directions

Excell should be added directly to the gauging water (85-100°F, if possible) in the following proportions based on the lowest temperatures expected during the first 24 hours following the work. Add 1 additional quart for each bag of lime in the mix.

25°F - 1 gal. To 15 gal.

20°F - 1 gal. To 10 gal.

15°F - 1 gal. To 7 gal.

-OR-

Excell may be added directly to each mortar batch. Add the quantity indicated below for each bag of cement and/or lime.

<u>Lowest Daily Temp</u>	<u>Each Bag Portland Cement</u>	<u>Each Bag Masonry Colored Mortar &/or cu. ft. Lime</u>
32°	1 quart	1 pint
25°	1½ quarts	1½ pints
20°	2 quarts	1 quart

Note

Never use frozen materials. Build a windbreaker around mixing equipment to prevent too rapid evaporation. Protection during the first day with tarps or insulating blankets is preferred. To prevent rusting of hollow metal door and window frames, the mortar must be kept stiff and packed tightly without voids. Do not use in concrete containing aluminum, such as conduits, as the product contains some calcium chloride. Never use more Excell than directions call for. For temperatures below 32°F, heat aggregates, use warm water so that concrete temperatures when mixed rises above 50°F, follow ACI 306 *“Recommended Procedures for Cold Weather Concreting”*.

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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