

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. With proper placement procedures, Excell is not nearly as corrosive as calcium chloride solutions would be. 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.

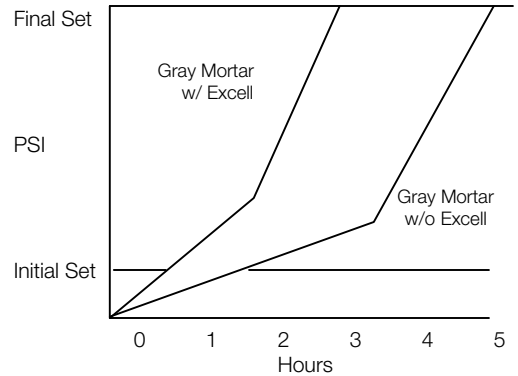
Excell will help reduce construction costs by eliminating cold weather delays. The surfactants improve the workability and actually increase the density of the mortar mix.

Engineering Properties

Test Results of Prepared Mortars

| | <u>Gray Mortar</u> | | <u>White Mortar</u> | |
|----------------------------|--------------------|--------|---------------------|--------|
| | With | | With | |
| | Plain | Excell | Plain | Excell |
| Setting time - hrs/min | | | | |
| Initial Set | 3:15 | 2:15 | 3:30 | 2:20 |
| Final Set | 4:55 | 4:30 | 5:00 | 4:35 |
| Compressive Strength - psi | | | | |
| 1 day | 5 | 60 | 4.8 | 45 |
| 3 days | 508 | 600 | 408 | 335 |
| 7 days | 775 | 1010 | 655 | 635 |
| 28 days | 865 | 1200 | 785 | 805 |
| Water-Absorption | 7% | 5.7% | 8.5% | 6.5% |
| Efflorescence | None | None | None | None |

Setting Time Difference with Excell in Gray Mortar



Packaging

208.15 Liters (55 gallon drum)
18.93 Liters (5 gallon pail)
15.16 Liters (4 one gallon pails)

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.

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

Another method is to add Excell directly to each mortar batch as shown below.

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salesmen, distributors and their salesmen have no authority to change the printed recommendations concerning the use of our products.

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".