

KAUFMAN

PRODUCT
INFORMATION

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Expose

Description

Expose chemical retarder that provides a simple, economical method of exposing aggregates for freshly poured concrete flat work. The organic compounds react with components in concrete to slow the strength gain on the surface and allow the mortar to remain workable for a longer time. Due to the controlled penetration, Expose allows the concrete underneath to harden normally. After the concrete has set for up to 1 day after application, the retarded mortar surface can be brushed off with a stream of water and a stiff bristled brush. Expose produces consistent, repeatable results without hot spots for depths of up to 3/16".

Uses

Expose is used to inexpensively expose aggregates on freshly poured concrete flat work. A wide range of textures and colorful surfaces are easy to achieve on wall panels, sidewalks, terraces, promenades, steps, patios, etc. Beautiful non-slip surfaces are simple to achieve. Expose surfaces produce a better bond for cold joints and provide a rough surface on formed cast-in-place concrete, to insure maximum bond between abutting sections of construction joints.

Packaging

(208.15 Liters)	55 gal. drum
(18.93 Liters)	5 gal. pail

Compliance

CRD C-94

VOC

0 grams/Liter

Directions

Prepare a concrete mix design that will satisfy the design team. This might include an integral color and/or a special aggregate. Do not tamp or overwork the top surface, as this will drive the aggregate down and thereby diminish the depth and uniformity of exposure. Use a wood float or bull float to work the top surface. Do not overwork the surface with a steel trowel, as this tends to seal the top surface and restrict the penetration of the chemical retarder.

Application

As soon as surface water has disappeared, and concrete has lost its sheen, spray Expose over the entire area to be exposed, using a low-pressure garden sprayer. Apply at 100 -150 square feet per gallon until a uniform color is obtained. Cover the concrete coated with Expose with plastic sheeting, wet burlap or curing paper to prevent the surface from drying out. Secure the covering around the perimeter to prevent ballooning. Do not use curing compound.

Procedure

The degree of retardation is affected by many factors. Basically, anything which will affect the set of the concrete, such as type of cement, admixtures, ambient temperature, wind, whether the concrete is in the sun or shade, whether the surface is flat or on a slope, must be taken into consideration in determining when to wash off the retarded matrix. So periodically check small areas to determine if concrete has hardened sufficiently. If depth of retardation is excessive, allow to remain longer and check again.

When proper depth is achieved, hose off the top surface of concrete and remove unset cement material with a coarse brush or broom, exposing the aggregate. High pressure water is more efficient and should be used when available

Increasing Texture

Sprinkle extra aggregate on the surface during finishing and work in with trowel, making sure it is firmly embedded and surrounded by cement paste. Special colored aggregates may be used for increased color effect. Quartz, granite, or marble aggregates are usually used.

Clean-up

Clean all tools and equipment with water immediately after use.

Samples

Skill and practice are necessary to produce high quality architectural finishes. Samples and test mock-ups duplicating actual jobsite conditions are essential to obtain representative finishes for approval prior to starting production. Changes in the mix design in the middle of a job should be avoided. It is also beneficial to have the same workmen who prepare the sample, do the actual job.

Sealing

Use one of the non-yellowing and all acrylic Krystal Series products for curing & sealing for the exposed surface. These products will also help prevent the aggregate from popping out during freeze/thaw cycles. All Krystal Series products will also prevent staining and waterproof the exposed surface, as well as enhance the colors of the aggregates. If a sealer with a brown tone is desired, use SureCure 25 Brown.

Precautions

Do not use on concrete that contains organic pigments, such as phthalocyanine blue. Do not allow freshly coated surfaces to be exposed to rain. Be sure to cover surface. Protect Expose from freezing while still in the can, as it will be damaged. Good concrete practices are always necessary. Always try a test area first to determine proper procedure for required results. Accelerating admixtures will reduce the effectiveness and dependability of Expose's action.

Expose must be applied immediately after surface water disappears. Delay in application will affect depth of retardation. Be sure to use the proper Expose for the intended depth of retardation desired. Read Safety Data Sheet before using.

Technical Information

The following 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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