

K A U F M A N

PRODUCT
INFORMATION

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SureFlow 040

Description

SureFlow 040 is a dry polymer modified cementitious blend that when mixed with water produces a pourable or pumpable, self-leveling and self-smoothing floor underlayment. It will seek its own level and produce a smooth, flat, hard, concrete gray surface. It has an open flow time of 15-20 minutes at 75°F.

Uses

Recommended for leveling and smoothing damaged, spalled or otherwise rough or uneven surfaces. To be used prior to covering them with resilient, ceramic, carpeting, vct, wooden or other flooring.

It can significantly reduce costly construction delays, as well as eliminate expensive man hours. When left exposed it provides a wearing surface suitable for foot traffic. It can be used over precast floor slabs and where exacting tolerances are needed for installations of precision equipment.

Apply indoors from near feather-edge up to ½" thick in a single operation. For thicker applications, pea gravel can be added. SureFlow 040 can be used above, on, or below grade. Finish flooring can be installed approximately 16 hours later. No troweling is necessary.

Features

- Low in place cost
- Accepts foot traffic in 3 hours
- Quick installation
- Can be feather-edged
- Mix with water only
- Pumpable/pourable
- Not a gypsum product
- Water-resistant

Packaging

50 lb. (22.7 kg.) moisture resistant bag

Coverage

1 bag yields approximately 55 ft² @ 1/8" thick
or 27.5 ft² @ ¼" thick

Physical Properties @75°F

Tested @ 5.5 qts. water per bag

Compressive Strength (ASTM C-109)	5 hours	1750 psi.
	1 day	1800 psi.
	7 days	3300 psi.
Flexural Strength (ASTM C-256)	28 days	4400 psi.
	1 day	750 psi.
	7 days	950 psi.
Length Change (ASTM C-157)	28 days	1100 psi.
	In Air	-0.069%
	In Water	+0.040%

Application Properties @75°F

Flow Time	15 minutes
Foot Traffic	2-3 hours
Floor Covering	16 hours
Mixing Time	1-3 minutes
Initial Set	30-40 minutes
Final Set	2 hours

Directions

Surface Preparation

Concrete Surfaces- Remove all dust, dirt, grease, and foreign matter including curing compounds. Do not use sweeping compounds. Remove all unsound concrete. Fill deep holes with SureGrout, and allow them to cure for several days prior to the application of SureFlow 040.

Surfaces must be primed to control hydration, serve as a bonding agent and prevent air from rising into the product. Prime surface with SureWeld diluted 1:1 with water. Apply at 400 ft²/gallon. For best adhesion, use SurePoxy HM neat instead of SureWeld. Floor must be primed not only to insure good bond, but to prevent air release from the substrate rising and forming air bubbles and pinholes on the surface.

Terrazzo, Quarry and Ceramic- Etch with muriatic acid and water solution or sandblasting. Rinse thoroughly to remove all acid and loose laitance. Prime with SurePoxy HM applied according to directions at 100 ft²/gallon.

Wood- Should be solid and fixed securely to provide a rigid (non-flexing) base. Use of metal lath is recommended. Prime with SurePoxy VLM.

Mixing

Add the contents of one bag of SureFlow 040 (50 lbs.) to 5.5-6.25 qts. of water and mix for 2-3 minutes. At 50-60°F, use only 5.5 qts. of water, and at 90°F use up to 6.25 qts. The use of more water or over mixing will weaken the mix. Mix well using a mortar mixer or a ½" heavy-duty type drill with a paddle blade and 500 rpm maximum speed. Keep the blade below the surface to reduce air entrapment. When installing 040 over wood, cut-back or metal, add 2 quarts of SureBond to the mixing water of each bag of SureFlow 040 for increased resilience. Do not ever add plasticizers, accelerators, retarders, or any other ingredients besides potable water unless advised by Kaufman Products in writing.

After mixing, use within its open time. Place material quickly and continuously. Notched or squeegee spreaders are beneficial. Add up to 25 lbs. 1/8" x 1/4" pea gravel per bag for applications from ½" to 1" thick, however this addition will reduce the self-leveling characteristics, and may make application of a smoothing coat necessary.

Application

After mixing, as described above, pour and spread using proper tools. Workers should wear baseball shoes or other spiked footwear.

SureFlow 040 will self-mend during the first 15 minutes at 70°F. SureFlow 040 can be walked on after several hours at 70°F.

Precautions

Do not use if air or surface temperatures are below 50°F. Temperatures below 50°F start to retard self-leveling properties. Cementitious products follow normal concrete practices. Designed as an underlayment material for interior surfaces only; cover with carpeting, tile, etc. SureFlow 040 requires penetration into clean concrete, or the aid of a high quality bonding agent. Existing expansion joints should be maintained and reproduced in the SureFlow 040 topping.

Test each job using a sufficient quantity of SureFlow 040, to determine the suitability of the system for its intended use and the technique for application is understood. Do not use in areas of constant water exposure or in areas exposed to permanent or intermittent substrate moisture, as this may reduce the performance of this product. This product is not a vapor barrier and will allow for passage of moisture. *Ask to see complete directions for this product before using. Read the complete Safety Data Sheet and Recommended Field Procedures for SureFlow 040 before using.*

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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